GONFIDENTIAL Release Date Jan-/-/797

O

PETROSUN 15-1 NMAL (894) SE NE 15-14N-25E APACHE CO.

UNTY APACHE		A	REAC	ONCHO	LEASE NO.	NMAL.
ELL NAME PETROSUN	15-1 NM	AL				
OCATION NW SE NE	SEC	15	TWP 141	N RANGE	25E FOOTAGE 144	5' FNL & 1050' FEL
					STATUSCOMP. DATE	101AC
ONTRACTOR UNITED DI	RILLING	INC.	ROSWELL 1	MM (RIG	#3)	
CASING IZE DEPTI		-				ROTARY YES
8 5/8" 609						CABLE TOOL
5 1/2" 1368		-				RESERVOIR
						DUCTION
FORMATION TOPS	DEPT	HS	SOUR L.L.	l l	REMARKS	<u> </u>
	<u> </u>					
						<u>,</u>
<u>. </u>				-		
	!	1			,	
ELECTRIC LOGS		PERI	FORATED I	NTERVALS	PROD. INTERVALS	SAMPLE LOG SAMPLE DESCRP.
CNL FD GR, BC S	ONIC,	-				SAMPLE NO. <u>1882</u>
DLL						CORE ANALYSIS DSTs 1
<						
		L				ADD TO DITIO
REMARKS						APP, TO PLUG
; 						PLUGGING REP.
		===				COMP. REPORT
WATER WELL ACCEPTED	BY			<u> </u>		
BOND CO. AMERICAN C	ASUALTY	CO.	READING P	ENNSYLVAL		
BOND AMT. \$ 10,000			ANCELLED			REPORT <u>5/24/96</u>
FILING RECEIPT #3088 LOC. PLAT 5/2/96					WELL BOOK	PLAT BOOK
					E HALF OF NE QTR	
PERMIT NUMBER 8	4	_				

(over)

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PETROSUN 15-1 NMAL (894)

DRILL STEM TEST RESULTS TO FROM NO. IH 547#, IFP51#, FFP167, ISIP388(30'). 2ND IFP 178#... 1034' 1062' 2ND FFP 308, SIP391(60'). REC 200'(.98Bbl) MW, 325' (1.59Bbl) FW, 525'(2.57Bbl) TOTAL. CORE RECORD RECOVERY REMARKS TO FROM NO. REMEDIAL HISTORY NEW PERFORATIONS WORK PERFORMED DATE STARTED - COMPLETED ADDITIONAL INFORMATION

			1-											
	WELL	COM	(PLETI	ON O	R RE	COMPL	ETION	REP	ORT A	ND W	IELL	LOG		
						TE TYPE O								
New Well X Ov	ork- er 🗆	Dee	pen 🗀	Plug Bac	<u>, ப</u>	Same Resen			rent ervoir	l oit		Gas	☐ Dr	у 🗀
				DI	SCRIP	TION OF W								
Operator		da. 1	-1. Do-	D	اليحم		Address 8			· < ^^		A	z 8529	R
PETROSUN E	Indian Leas	A Numbe	T OL DAM	e of less	r if fee		Well Num			Reservoi			<u>z 020.</u>	<u> </u>
NEW MEXICO							15-1		WILL	CAT	-			
Location	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						Cou	nty						
Sec. Township-Ra							A	PACH	E					
15-14N		G+4	SRB+A					- Ter.		- VD DT	Ca)	Clausti	an of occine	
Date spudded しっしゃっしん	,		tal depth : / 4/익 6	reached	bu		11/96	. !	evation (D 5552	F, KB, R1	or <u>Gr.</u>) feet	head fi	on of casing ange	feet
Total depth		P.B.T.			Sir	ngle, dual, o		pletion?	,	turnesi	separate	rtriple compl report for ea	letion ch	
36481			321'			SING				compi	etion			
Producing Interva	1(s) for this							DEPT	HS		Cable	tools us	ed (interval)	
Was this well din	ectionally d	rilled?			urvey m	ade?	Was copy			ey filed?		filed		
НО				YES			L	YES				8/96		
Type of electric o	r other logs	run (che	ck logs fi	led with t	he Arizo	ona Geologi	cal Survey				Date	filed ろ/Gし		
DLL, S	ONIC , G	<u>K + v</u>	PENK	DI DE	NSII	CASING R	ECORD					<u> 3)/46</u>		
Casing (report a	Il strings se	t in well	- condu	ctor, surf	ace, inte			etc.)						
Purpose	Size	hole drill	ed S	ize casin	g set	Weight	(lb./ft.)	D	epth set		Sacks c	ement	Amoun	t pulled
SURFACE	12	1/4		8 4/8	u	24	#	1	ρ Ο ΓΙ	_	369	>		
PRODUCTION		01/4		51/2	4	15.	5 #	1	368		145	<u> </u>		
													<u> </u>	
	TUBING R	ECORD			<u> </u>		·		LINER R	ECORD				
Size	Depth set		Packer		Size	_	Тор	_	Bottom	_	Sacks	cement	Screen	(ft.)
in.	0505	ft.	N RECO	- ft.	<u>. </u>	in.		it.	T FRAC	ft.	BAENT	SOURE?	E RECORD	
Number per ft.	Size & t		N KECUI		interval				d of mater		TAPLIA		interval	
니	.50" 9		1201	0 - 127	11-		2000	041	15% H	<u>C)</u>	 	ا - ما20	2210	
-7	1.50 4	<u>.</u>	120	<u> </u>			1	y^.	1379		<u> </u>	200		
	L		J			INITIAL PR	ODUCTIO	۷						
Date of first prod	duction			ng metho	d (indic	ate if flowin	g, gas lift o	r pumpir	ng — if pun	nping, she	ow size	& type of	pump)	
	Hours teste	d C	hoke size		l prod. o	during test	Gas pro	d. during	g test	Water p	rod. du	ing test	Oil gravi	ty
AUG 142,96	30 MIN	J	2"		်ဝ	bbls.		0	MCF_		8	<u>bbls</u>	0.	APII
Tubing pressure		g pressi		alculated ra roduction pe		Oil		Gas	_	V	Vater	_	Gas-o	ratio
0	4	<u> </u>		0			O bbis	<u>. </u>	0 1	MCF		S bble		
Disposition of ga	as(state wh	ether ve	nted, used	d for fuel	or sold)									
N/A		•				<u> </u>								
CERTIFICATE:														_ of the
BE-1ROSUNE														
report was prop	ared under	my supe	rvision at	nd dîrecti	on and t	that the fact	s stated the	gein an	tue, con	ept and c	omplete	to the be	est of my kn	owledge.
1	7/17	/a=	,		(C)				\gg					
- Onto	77817	7/		A		S	Sign	ature	D	<u> </u>				
Date					- 6		Jigii	eren e	- {	\				
			EC 1	k '0{}		3)				
	35-11	atad for	E 11.21.2.2	<u> </u>	- <u>***</u>	oletion a								
	Mail compl Oil and Ga Arizona Go 416 W. Co Tucson, A	is Progra	within the Admin	istrator_		pieu iuju o.						RIZONA		
	Arizona Go	eological noress	#100	3EO	JI.	· Ay		OIL	& GAS	CONSE	RVAT	TON CO	OMMISSI	ON
	Tucson, A	Z 85701	10			9) ⁷		Well	Completi	on or Rec	ompieti	on Repor	t and Well L	og
	394		-A.	STITE	الاط		Form	No 4		File	One C	ору		
Permit No	/ 1°T						i Loui	7U. T						

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2/96

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0.50	MATIONS DENETRATED
DETAIL OF FUI	MATIONS PENETRATED
воттом	DESCRIPTION*

FORMATION	TOP	воттом	DESCRIPTION*
Coconino	200	530	Clean Sd
Supai	530	3040	Siltston, CO3, evaps
Naco	3040	3450	
Molas	7450	3480	
Devonia ?	3480	3540	
Granite	3540	3648 70	
			DST # 1 1034-62 6P 15', S1 30', OP 30', S1 60' REC 200' MW, 305' FILTRATE WTR Rw. 03.06 080' 1HP 547, IFP 51, FFP 167, ISIP 388 (30 MIN) 21FP 178, 2 FFP 308, SIP (60 MIN) 391

^{*} Show all important zones of porosity, detail of all cores, and all drift-stern tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion report and well log shall be filed with the Oil and Gas Program Administrator, Arizona Geological Survey, 416 W. Congress #100, Tucson, AZ 85701 not later than thirty days after completion pursuant to A.A.C. R12-7-121.

PAGE 91 AZ GEÜLÜGICAL SURVEY 5207703505 01/05/2000 13:33 PLUGGING RECORD Address & Phone number M1721-9-Field & Reservoir Exploration Well No. Federal, State, or Indian Lesse No. or lessor's name if fee lease hole Sec - Twp - Rge County Por ele 1050 PEL Location of Well FNL Hes this well ever produced oil or ges Character of well at completion (initial production):
Oil (bbladay) Gee (MCF/day) Application to drill this well was filed in name of Dry? <u>Petrasim</u> Total depth Pluse & Amount well producing when plugged:

3648-550# Oll (bbla'day) Gas (MCF/day) Date plugged Water (bbla/day) 6ize, kind & depth of plugs used. Indicate zones squeeze comented, giving amount of coment Fluid content of each fermation Depth interval of each fermation Name of each formation containing oil or gas. Indicate which formation open to wellbors at time of plugging Mone CASING RECORD Give depth and method of parting cealing (shot, etc.) Packers and shake Left in well (ft.) Pulled out (fl.) Fut in well (ft.) 60914 MM 609*ft* Was well filled with heavy drilling mud, according to regulations? indicate deepest formation containing fresh water COCON-WO NAME AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE Direction from this well Name Address Surrow Showlow MELMRY Des mond Mobile In addition to other information required on this form, if this well was plugged back for use as a fresh water well, give all perforant details of plugging operations to base of fresh water sand, perforated interval to fresh water sand, name and address of surface owner, and attach letter from surface owner authorizing completion of this well as a water well and agreeing to assume full liability for any subsequent plugging which might be required. Use reverse side for additional datail. President report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge. STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Plugging Record Permit No. 89-4 File One Copy Form No. 10

.

Set up Rig, Removed Top Valving & plumbing, Ran
Pulled Sto Pt. OF 3" upset Tubing, Ran
Dailer down hule to sto Pt. bailed on well at
this point, hole plugged at Sto Pt. Pilled hole
with bentonise pellets up to 20 Pt Fran surface. Installed
20 Pt Stout pack of all anular spaces and marked
well with regurred markings

T seemen

Key I well

AZ GEOLOGICAL SURVEY PAGE 04 5207703505 \$0/12/1999 11:28 APPLICATION TO PLUG AND ABANDON LEASE NUMBER(Lessor's name if fee) NMAL TOTAL DEPTH ALLOWABLE (If Assigned) LAST PRODUCTION TEST DATE OF TEST 8-1-96 /206' TO /226' (MCF) Supai PRODUCING FROM 1. COMPLETE CASING RECORD 124" hole - 8 = 24# set@ 609" w/ 365 sks 6 4" hole - 5 1" 15.5 # set@ 1368" 4 145 sks perf 1206-26" F.W hole with bentonik perlets to total depth Place 20 Ft census ply at surface Fill all anular space at surface Install regard well marker DATE COMMENCING OPERATIONS Mc Cray well dolly ADDRESS Title Address Dete verbel STATE OF ARIZONA Date Approved 10-12-99-Verbal OH & GAS CONSERVATION COMMISSION STATE OF ARIZONA Application to Plug and Abendon OIL & GAS CONSERVATION COMMISSION File Two Copies

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1.3

Set up Riz, Removed. Top Valving & plumbing, Ron
Pulled 550 Pt. OF 2" upset Tubing. Ron
Dailer down hole to 550 Ft. bailed on well at
this point, hole plugged at 550 Ft. Rilled hole
with bentonite perlets up to 20 Pt Fran surface, Installed
20 Ft Srout poet of all anular spores and marked
well with regord markings

Key I hall

COPY

STATE: ARIZONA COUNTY: APACHE API 02-001-20306 FIELD: WRDCAT WELL CLASS: WF

OPR: PETROSUN E&P

*া গোলায়া*র

14N-25E 15 SE NE 1445 FNL 1050 FEL STATUS: TA-OG

P/N 894

15-1 NEW MEXICO & ARIZONA LAND CO

SPUD: 06/17/96 COMP: 01/02/98 ELEV: 5552 GR TD: 3648 (07/04/96) FM/TD: UNKNOWN CONTR: UNITED DRLG RIG #3 (R) (VERTICAL) PROJ DEPTH/FM: 3800 PRECAMBRIAN PERMIT #894

COMP 1/2/98, TEMP ABND. NO CORES, ONE DST

LOC DESCRIPTION: 30 MES-SW PINTA DOME FLD(COCONINO)ABND 1 1/2 MI SW HUNT, NM; LAT: 3461773 LONG: 10967166; PRIMARY TARGET: DEVONIAN; CASING: 5 1/2 @ 1342;

DST# 1 (SUPAI) 1934-1062, OP 15 MIN, SI 30 MIN, OP 30 MIN, SI 1 HR, REC: 200 FT MDYWTR, 305 FT WTR, IFP 51, FFP 167, IFP 178, FFP 398, ISIP 388, FSIP 391, IHP 547;

DRIG COMMENTS: OPR REPORTS ROTARY BUSHING BLEW OUT OF HOLE WITH MUD & METHANE IN SUPAI @ 1202-1232, OPERATOR MAY DRILL AN OFFSET IN FUTURE.

DRIG SHOWS: 1034-1062 SUPAI OIL 1034-1062 SUPAI GAS PROD TEST(S): PERF (SUPAI) 1204-1220, SWBD NTGN AMT NOT RPTD.

QPER ADD: 6836 E LUDIOW, SCOTTSDALE, AZ, 65254 PHONE (602) 998-9771;

COPYRIGHT 1998 PETROLEUM INFORMATION/DWIGHTS LLC

DATE 02/02/98CARD #00001-F COR

3-6-97 per John Somers recent calculations

@ Derminn @ 4000' TD

Bgi n 118 SCF/CF

O

Shireness .

Edici**ants**

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator PetroSun Exploration & Pr	oduction,Inc.
	pecify)
Location 1445' FNL & 1050' FEL	
Sec. 15 Twp. 14N Rgs. 25	
4. Federal, Stale, or Indian Lease Number, or lessor's name if fee lease	
5. Field or Pool Name Wildcat	
6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Da	ta e
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
FRACTURE TREAT DIRECTIONAL DRILL F SHOOT OR ACIDIZE PERFORATE CASING S REPAIR WELL CHANGE PLANS	WATER SHUT-OFF WEEKLY PROGRESS X RACTURE TREATMENT REPAIRING WELL HOOTING OR ACIDIZING ABANDONMENT (OTHER)
(OTHER)	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log Form 4
DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state of starting any proposed work. If well is directionally drilled, give subsurand zones perlinent to this work.)	face locations and measured and true vertical depths for all markers
November 1 - November 30,1996 No December 1 - December 31,1996 No	activity, well dead, shut-in activity, well dead, shut-in activity, well dead, shut-in activity, well dead, shut-in
Note: New mailing address	
6735 E. Greenway Parkway,#104 Scottsdale,AZ 85254	JAN 1997 ARIZONA GEOLOGICAL SURVEY SURVEY
8. I herby certify that the bregoing is true and correct.	Descrident 1/27/07
Signed	Tille President Date 1/21/91
	STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Sundry Notice and Reports On Wells File Cne Copy
Permit No894	Form No. 25 Mail Completed Form to: Oil & Gas Program Administrator Artiona Geological Survey 416 W. Congress #100 Tucson AZ 85701-1315

SUNDRY NOTICES AN	ID REPORTS ON WELLS
1. Name of Operator PetroSun Exploration	0 & Production Inc
2. OIL WELL GAS WELL OTHER K	(Specify)
3. Well Name NMAL 15-1	
Location 1445' FNL + 1050' FEL	
	25E county Apache, Artzona
4. Federal, State, or Indian Lease Number, or lessor's name if fee lease	New Mexico & Arizona Land Co
5. Field or Pool Name Wildont	
6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other I	Cata
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
FRACTURE TREAT DIRECTIONAL DRILL	WATER SHUT-OFF WEEKLY PROGRESS FRACTURE TREATMENT REPAIRING WELL SHOOTING OR ACIDIZING ABANDONMENT (OTHER)
(OTREN)	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log Form 4
or arising any proposed work. If well is directionally drilled, give substant and zones perlinent to this work.) Week of Sept 9 - 15 10 activity. Week of Sept 16 - 22 no activity. Week of Sept 23-29 no activity. Week of Sept 30-Oct 3 no activity. Plan of of	ate all perlinent details, and give perlinent dates, including estimated date unface locations and measured and true vertical depths for all markers well dead, shut-in well dead, shut-in well dead, shut-in well dead, shut-in, divised of operators plan to from 1028' to 1034' in near future-beration will be forwarded to risona pending decision of partners
8. I herby certify that the foregoing is true and correct. Signed	STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Sundry Notice and Reports On Wells Form No. 25 File One Copy

(F

5/95

Mali Completed Form to: Oli & Sas Program Administrator Antona Geological Survey 418 W. Congress #100 Tucson AZ 85701-1315

(Č) VELLS

SUNDRY NOTICES AND REPORTS ON WELLS					
1. Name of Operator PetroSun Exploration 4	Production, Inc.				
2. OIL WELL GAS WELL OTHER (S)	pecify)				
Location 1445 FNL + 1050 FEL	4.5 hanka				
Sec. 15 Twp. 14 N Rge. 2 4. Federal, State, or Indian Lease Number, or lessor's name if fee lease N	iew Mexico & Arizona Land Co.				
5. Field or Pool Name Wildcat					
6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Dat	· ·				
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:				
	WATER SHUT-OFF WEEKLY PROGRESS RACTURE TREATMENT REPAIRING WELL				
SHOOT OR ACIDIZE PERFORATE CASING SI	HOOTING OR ACIDIZING ALTER CASING				
REPAIR WELL CHANGE PLANS	ABANDONMENT				
(OTHER)	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log Form 4				
 DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state of starting any proposed work. If well is directionally drilled, give subsur- and zones pertinent to this work.) 	face locations and measured and true vertical depths for all markers				
to pit, n	vity, pumper opened well up, flowed to fluid, gas blew down to zero within lites. Well dead, shut-in.				
to pit, within	vity, pumper opened well up, flowed no fluid, gas blew down to zero 10 minutes. Well dead, shuttin.				
Week of Sept 2 - Sept 8 no acti	ivity, well dead, shut-in.				
SEP 1996 SEP 19	A 10 10 20 21 22 23 33 34 34 34 34 34 34 34 34 34 34 34 34				
I herby central the inregoing is true and correct.					
Signed	Tille President Dale 9/9/96				
	STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Sundry Notice and Reports On Wells				
Permit No. 894	Form No. 25 File One Copy				

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5/96

Mail Completed Form to: Oil & Gas Program Administrator Artona Geological Survey 416 W. Congress #100 Tucson AZ 85701-1315

SUNDRY NOTICES AND REPORTS ON WELLS

(£

1. Name of Open	nor PetroSun Exploration & Production, Inc.
2. OILWELL	GAS WELL OTHER (Specify)
3. Well Name	NMAL 15-1
	445' FNL 4 1050' FEL
	Twp. 14N Rge. 25E county Apache , Arizona
4 5-41 State	, or Indian Lease Number, or lessor's name if fee lease New Mexico and Arizona Land Co.
4. recerai, state	, of Indian Lease Number, of leason & figure it lee lease
	Name Wildrat
6. Check Approp	oriate Box to Indicate Nature of Notice, Report, or Other Data
	NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:
TEST WATER SI	DEDAUGUACIA
FRACTURE TRE	
REPAIR WELL	CHANGE PLANS SHOOTING OF ACIDIZING ABANDONMENT
(OTHER)	(OTHER)
(OTHER)	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log Form 4
1. DESCRIBE P	ROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date
of starting any	y proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers rtinent to this work.)
	NU wellnead 4 BOP, Cir Hole w/2% KCL Fresh H20, Spot
	100 gal HCL 15% Acid across perfs, POOH w/TBG, RU
	Schlumberger-ran CBL/GR/CCL WVOL, Perf 30ne of
	Interest @ 1206-1226 w/ 4 Spf . 50" hole 900 phase., Flow
	well to pit on 14" choke - well died . PU AD-151/2" Packer -
	Ran in Hole on 23/6" TBG. Set bottom of packer @ 1112.6 Top
	of SN @ 1108.60. ND BOP NU wellhead set packer. RU
	Western Co (BJ) Acidized well @ 1206-1226 w/2000 gal 15%
	HCL wladditives - SD RD Western . Flow well to pit on 14" Choke
	well died -shut in
0001	No activity, swab well 2 run - Fluid € seating nipple - flow well 2" chake
8-2-96	well died-SI, Rigged down-release rig - well shut-in
	e and the Charlet and the standing 1951
8-9-96	no activity, open well up on 2" choke, flowed to pit, starting psi
	350 psi, well down to 5 mcfd flow after 30 min Flowed well to pit for a total of 1 hour. Flow steady @ 5 mcfd - Recovered 8 bbls fluid,
	Acid H20 4 Brine 420 - Pulled gas sample @ 0700 301 psi on sample.
	well shot in -
8 I herbacedif	y faithe foregoing is true and correct.
o. Theory early	Tille President Date 9/4/96
Signed	Tille President Date Vive
	STATE OF ARIZONA
	Sundry Notice and Reports On Wells
Permit No	SQLI Sundry Notice and Reports On Wells Form No. 25 File One Copy Mall Completed Form to: Oil & Gas Program Administrator Artzona Geological Survey 416 W. Congress #100
	Mail Completed Form to: Oil & Gas Program Administrator Artzona Geological Survey 416 W. Congress #106 Program AZ #5701.1315
	10 M 00 M 00 M 10 M
	Tucson AZ 85701-1315

C

PetroSun.Inc.

6029982948

FAX 9156526224

pq



Farmington, N.M. 87401 (505) 325-6622

Analysis No. PS260001 Cust. No. 61500-10000

WELL/LEASE INFCRMATION

file PIN 894

Company : PETROSUM EXP & PROD INC Source : WELLHEAD Woll Name : NNAL 15-1 : 350 PSIG Pressure Sample Temp. : N/A DEG.F Well Flowing : YES County : APACHE State : AZ Location Date Sampled : 08/09/96 Fld/Formation : WILDCAT Sampled By : SAM BILLINGTON Cust.Stn.No. : 1 Poreman/Engr :

Romarks: 1212' - 1232' per work plan

ANALYSIS

		~~~~~			
COMPONENT	MOLE &	GPM**	B.T.U.*	SP.GR,*	
NITROGEN	05 443	0.0000	2.22	0 0000	
	86.647	0.0000	0.00	0.8380	
CD2	12.176	0.0000	0.00	0,1850	
HETHANB	1.132	0.0000	11.46	0.0063	
BTHANE	0.041	0.0110	0.73	0.0004	
PROPANE	0.000	0.0000	0.00	0.0000	
I-BUTANE	0.000	0.0000	0.00	0.0000	
N-BUTANE	0,000	σ.σοσο	0.00	0.0000	
I-Pentane	0.000	0.0000	0.00	0.0000	
n-pantanb	0.000	0.0000	0.00	0.0000	•
HBXANBS	0.004	0.0017	0.21	0.0001	
TOTAL	100.000	0.0127	12.39	1.0298	

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY ** 8 14.730 & 60 DEG. P

COMPRESSIBILITY FACTOR	(1/2)	1.0006
BTU/CU.FT. (DRY) CORRECTED	FOR $(1/2)$	12.4
BTU/CU.FT. (WET) CORRECTED	FOR (1/Z)	12.2
REAL SPECIFIC GRAVITY		1.0300

#### ANALYSIS RUN AT 14.730 PSIA & 60 DEGRESS F

CYLINDER # : K084 CYLINDER PRESSURE : 301 PSIG : 08/12/95 analysis Run by : CHELLE DURSIN

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SUNDRY NOTICES AND R	EPORTS ON WELLS
. Name of Operator Petro Sun Exploration	+ Production, Inc. of 21:00
¥	cify)
3. Well Name NMAL 15-1	
Location 1445' FNL + 1050' FEL	
Sec. 15 Twp. 14N Rge. 25	County Apache, Arizona
4. Federal, State, or Indian Lease Number, or lessor's name if fee lease	YEW MERICO AND MITZONA LANG
5. Field or Pool Name Wildcat	
<ol><li>Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data</li></ol>	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL  DIRECTIONAL DRILL PERFORATE CASING CHANGE PLANS  FRA SHO	TER SHUT-OFF ACTURE TREATMENT REPAIRING WELL DOTING OR ACIDIZING ABANDONMENT OTHER)
(OTHER)	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log Form 4
Flange & BOP. Tally IN Hole.  2. PU 4.3/4" Blade Bit, Bit Surop of cement @ 1332' +/-  Top of cement @ 1332' +/-  DAY 2 1. MIRLI Reverse Unit & Drill at  2. Roll hole w/2% KCL. Spot  from 1232' to 1132'. POOH  3. Rig up Schlumberger wireling  4. Surface. RIH & perferate  RD Schlumberger.  4. PU 5-1/2" AE I Tension Packe  4. PU 5-1/2" AE I Tension Packe  4. KB. ND BOP. Land tubin  5. MIRLI BD Services. Acidise	impletion Unit. Nipple up Wellhead, b 423/8" Tubing. Taily in hole. Tag KB. to 1332', if necessary t 100 gals 15% HCL acid w/additives w/tubing re. RIH. Run GR-CCL-CBL from PBTD 30re from 1212' to 1232' w/4 SPF. er. RIH on 23/8" tubing 15et at 1100' ng. NU Wellhead. well w/2000 gals 15% HCL acid down
6. RD BJ Services. NU Flow test. 7. RD + Release completion rig	Back lines. Flow to reserve pit for flow
8. I herby certify that the foregoing is true and correct.	
Signed	tile President Date 7/23/96
	STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Sundry Notice and Reports On Wells
QGL	Form No. 25 File One Copy

Form No. 25

Mail Completed Form to: Oil & Gas Program Administrator Arizona Geological Survey 416 W. Congress #190 Tucson AZ 85701-1315

5/96

Permit No. 894

2.23.23.5

PetroSun, Inc.

6029982948

P.01

JUL-22-96 MON 12:11 SAM BILLINGTON JUT-22-96 13:31 SIRGO

3033332412

P.91

P.CE

PETRO SUN 6836 E. LUDLOW BCOTTBDALE, AZ 85254

COMPTERD BY:

SAM BILLINGTON

DATE 7/22/96

REVIEWED BY:

GORDON LE BLANC, JR. PRESIDENT

APPROVED BY:

DATE

TITLE:

WELL FILE (ORIGINAL)

X Copies to: Joe 5 phar NZ Thui Slayton Cobb Resources Steve Rauzi

file 894

Jul-22-96 13:31 SIRGO

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Jul-22-96 13:31 SIRGO

P.03

#### PETRO SUN

WELL NAME & NUMBER NMAL 15-1

LOCATION 1445' FNL & 1050' FEL, SECTION 15, T14N, R25E APACHE COUNTY, ARIZONA

ELEVATION 5552' GL, 5563' KB

WILDCAT FIELD

COMPLETION INTERVAL 1202-1232'

CASING PROGRAM

HOLE SIZE WEIGHT GRADE TOP OF CEMENT SET 12-1/48 609 4 8-5/8" 24# SURFACE 7-7/8" 5-1/2" 15.5# 1368' 1045' CALC.

PROPOSED TURING PROGRAM

GRADE THREAD SIZE 2-3/8m J-55 BRD EUE

LOGGING PROGRAM

MUD LOGS: SURFACE-3660'

PROPOSED CASED HOLE

GR-CCL-CBL PBTD TO SURFACE

PetroSun, Inc...

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P.02 F.03 P.04

_Ju1-22-96 13:32 SIRGO

EXCHANGE !

#### PETRO SUN COMPLETION PROCEDURE NUAL 15-1

#### DAY #1

- 1. MIRU COMPLETION UNIT. NIPPLE UP WELLHEAD, FLANGE AND BOP. TALLY IN HOLE.
- 2. PU 4-3/4" BLADE BIT, BIT SUB AND 2-3/8" TUBING. TALLY IN HOLE. TAG TOP OF CEMENT AT 13321 +- KB

#### DAY ≸2

- 1. MIRU REVERSE UNIT AND DRILL OUT TO 1332' IF NECESSARY.
- 2. ROLL HOLE WITH 2% KCL. SPOT 100 GALS 15% HCL ACID WITH ADDITIVES FROM 1232' TO 1132'. POOH WITH TUBING.
- 3. RIG UP SCHLUMBERGER WIRELINE. RIH. RUN GR-CCL-CBL FROM PBTD TO SURFACE. RIH AND PERFORATE ZONE FROM 1202 TO 1232' WITH 4 SPF. POOH. RD SCHLUMBERGER.
- 4. PU 5-1/2" AE-1 TENSION PACKER. RIH ON 2-3/8" TUBING, SET AT 1100' +-KB. ND BOP. LAND TUBING. NU WELL HEAD.
- 5. MIRU BJ SERVICES. ACIDIZE WELL WITH 2000 GALS 15% HCL ACID DOWN TUBING WITH 180 BALL SEALERS. BALL OFF.
- 6. RD BJ SERVICES. NU FLOW BACK LINES. FLOW TO RESERVE PIT FOR FLOW TEST.
- 7. RD AND RELEASE COMPLETION RIG.

file 894

JUL-22-96 MON 12:12 9"M BILLINGTON

200

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# ACID BALLOFF ON WILDCAT PETROSUN E & P, INC.

NMAL NO. 15-1 WILDCAT FIELD SEC.15,T14N,R26E APACHE COUNTY, AZ WILDCAT FORMATION

JULY 22, 1996



PREPARED FOR MR GORDON LEBLANC - OWNER MR. JOHN TEMPLIN - GEOLIGIST MR. SAM BILLINGTON - SIRGO

PREPARED BY
MIKE MCNEESE
SR. DISTRICT ENGINEER
FARMINGTON

CALES REPRESENTATIVE MIKE MCNEESE SA. DISTRICT ENGINEER BJ SERVICE POINT FARMINGTON, NM (805) 327-6222

FH030617

troSun.Inc.

P.03

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F. 01

(1212-1232)

FH050017 01

# BJ SERVICES COMPANY

OPERATOR: PETROSUN E & P, INC. NMAL NO. 15-1 WILDCAT

# WELL DATA

**Net Pay** Depth to Middle Perforation **Tubing** Casing Fracture Gradient **Bottom Hole Frac Pressure Bottom Hole Temperature** Perforated Interval

30 ft 1,217 ft 2 7/8", 6.5# 5 1/2", 15.5# .65 psi/ft 791 psi 85 deg F 1202'-1232'

TOTAL OF 120 HOLES @

0.38".

troSun, Inc.

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**50 11362983** 

# BJ SERVICES COMPANY

Treatment Regulrements for: ACID BALLOFF

ACID BALLOFF:

CONTRACTOR |

2,000 GALLONS 15% HCL ACID

Containing per 1000 Gallons:
2.00 Gallons I-22, CORROSION INHIBITOR
5.00 Gallons FERROTROL-300L, IRON CONTROL
1.00 Gallons FLO-BACK 20, SURFACTANT

BALLOFF WITH 2,000 GAL OF 15% HCL ACID AT 10 BPM. HAUL 2,000 GAL OF ACID IN TRANSPORT AND 4,500 GAL OF WATER IN ACID TRUCK/TRANS.

2% KCL WATER:

4,500 GALLONS 2% KCL WATER

Containing per 1000 Gallons: 167.00 Pounds KCL, POTASSIUM CHLORIDE

HAUL 2,000 GAL OF ACID IN THE (2) 1,000 GAL COMPARTMENTS OF THE TRANSPORT & 1,500 GAL OF 28 KCL ON ACID PUMP & 3,000 ON TRANS.

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FM850617

### PRODUCT DESCRIPTIONS

#### 8S-713 (Ball Sealers)

Uncoated and rubber covered(nylon) foam balls used for diversion. Specific Gravity - 1.3

#### FAW-1 (Foaming Agent)

An amphoteric (cationic and anionic) surfactant used as a foaming agent for water and acid-base fracturing fluids.

# FERROTROL (Iron Control)

Used primarily in acidic stimulation treatment fluids to prevent precipitation of ferric hydroxide [Fe(III)] as the pH of the fluid rises upon spending.

#### FLO-BACK 20 (Surfactant)

A nonionic surfactant designed to minimize fluid retention in water sensitive formations. FLO-BACK 20 reduces the surface tension of the treating fluids and alters their contact angles, thus allowing them to flowback more easily and enhance ultimate fluid recovery. Used in concentrations of 1 - 5 gal/1000, FLO-BACK 20 is very effective in tight gas sands.

### GBW-10 (Gel Breaker)

A solid enzyme breaker designed for use in neutral or slightly acidic pH fracturing fluids to sufficiently reduce the gel viscosity allowing for clean-up of the treatment system. B-11 is used primarily at low temperatures below 120 Degrees Fahrenheit.

#### GBW-5 (Breaker)

An oxidative breaker formulated to degrade polymers used in fracturing, workover and remedial treatments. It can be used up to 200 deg Fahrenheit (93 deg C). An additional catalyst allows its use below 140 deg F (60 deg C).

## GW-27 (Gelling Agent)

A guar gum gelling agent blended with a buffering system. It is used to make gelled water, gelled acid and crosslinked water-base fluids. The polymer residue is 6% to 9% by weight.

# HYDROCHLORIC ACID (Inorganic Acid)

An inorganic acid (HCL) used in primary acidizing of carbonate and sandstone formations. It is the most common of oil field acids. It is typically used in concentrations from 3% to 28% (by weight). Higher concentrations are avoided due to increased volumes of inhibitors required and quantities of fines generated as the acid spends on the formation rock.

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PetroSun, Inc.

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## PRODUCT DESCRIPTIONS

#### I-22 (Corrosion Inhibitor)

An organic liquid acid corrosion inhibitor for use in hydrochloric acid, HCL/HF acid, Mutual Solvent/HCL acid and organic acid/HCL acid systems with total acid strengths of up to 28% (by weight) and with well conditions where exposure temperatures are less than 300 Degrees Fahrenheit. Effective acid corrosion rates are less than 0.05 LB/SQ.FT.

#### POTASSIUM CHLORIDE (KCL) (Salt)

A granular salt used to reduce clay swelling caused by water-base stimulation fluids.

#### X-CIDE 207 (Bacteriacide)

A non-ionic isothlasolin bacteriacide in a convenient, solid granular form. It provides broad spectrum control of slime forming and sulfate-reducing bacteria in oilfield water

07-22-1996 09:53:08

15-1 NMAL No. 1 WELL NAME AND NUMBER 1445' FNL & 1050' FEL, Section 15, T14N, R25E, Apache County AZ LOCATION Petro Sun Exploration & Production Inc. OPERATOR DRILLING CONTRACTOR United Drilling, Inc.

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above described well and had conducted deviation tests and obtained the following results:

Degrees @ Depth	Degrees @ Depth	Degrees @ Depth
1/2° 677'	1-3/4° 1828¹	3/4° 33211
1-1/2° 1021'	1-3/4° 1922'	1/2° 3684'
2-1/4° 1238'	1-1/4° 2021'	48
1-3/4° 1331'	1-1/2° 2112'	
1-3/4° 1426'	1° 2200'	
1-1/4° 1514'	3/4° 2299'	
1-3/4° 1639'	3/4° 2573'	
1-1/2° 1739'	1/2° 2882¹	

Drilling Contractor_

Business Manager Title:

Subscribed and sworn to before me this // day of ____ 19 %.

Mainin Jankinsky
Notary Public

My Commission Expires: 9-25-99



County State

State

April 894



The section and

Post Office Roy 718 Farmington, New Mexico 87499 1733 Fast Main Street Farmington, New Mexico 87401 Telephone (505) 325 0246

COMPANY NAME: PETROSUN E & P

WELL NAME: 15-1 NMAL#1
CONTRACTOR: UNITED #3

**DST NO.: 1** 

K.B. ELEVATION:

SPOT: E 2 OF NE4

FORMATION: SUPAI

SECTION: 15

TOWNSHIP: 14N

RANGE: 25E

FIELD: WILDCAT

COUNTY: APACHE

STATE: ARIZONA

MIN.

8HUT-IN NO. 1: 30

MIN.

FLOW NO. 1: 15 FLOW NO. 2: 30

MIN.

SHUT-IN NO. 2: 60

MIN.

BOTTOM HOLE TEMP.: 80

TOP CHOKE: BUBBLE HOSE

BOTTOM CHOKE: 3/4

HOLE SIZE: 7 7/8

CASING SIZE & WT.: 8 5/8 24# @

9178 2 WT. D.P. OR TUBING: 4 1/2 XH 16.66

LD. OF D.C.: 2 1/4

LENGTH OF D.C. ABOVE TOOL: 520

TOTAL DEPTH: 1062

INTERVAL TESTED: 1034 - 1062

TYPE OF TEST: BOTTOM HOLE CONVENTIONAL

MUD WEIGHT: 9.9

VISCOSITY: 38

TOOL OPENED @: 13:23:00

People and Products Providing Solutions for Completions, Workovers and Fishing

COMPANY NAME: PETROSUN WELL NAME: 15-1 NMAI#1

DST NO.: 1

#### SAMPLE DATA

#### **SAMPLE CHAMBER:**

SAMPLE CHAMBER CONTAINED: WATER

#### RESISTIVITY DATA:

DID WELL FLOW: GAS NO OIL NO WATER NO

RECOVERY IN PIPE:

200' MUDDY WATER .98 Bbl .59 Bbl

525' TOTAL 2.57Bbl

BLOW DESCRIPTION:
FIRST FLOW; TOOL OPENED WITH A 1" BLOW INCREASED TO THE BOTTOM OF THE BUCKET IN 5.5 MIN., MAINTAINED A FAIF BLOW OF THE BOTTOM OF THE BUCKET, 10 MIN STARTED DECREASING, 8" IN 12 MIN., 3" IN15 MIN.

FIRST SHUT-IN; DEAD IN 3 MIN. SECOND FLOW; TOOL OPENED WITH A 1" BLOW INCREASED TO 5" IN 5 MIN., 5" IN 10 MIN., 5" IN 15 MIN., 3.5" IN 20 MIN., 3" IN 25 MIN., 2.5" IN 30 MIN.

SECOND SHUT-IN; DEAD

#### REMARKS:

COMPANY NAME: PETROSUN WELL NAME: 15-1 NMAI#1 DST NO.: 1

#### RECORDER DATA

TYPE DMR CAP. 5000 INSIDE X	NO. 4000 LOC. 1020 OUTSIDE	HR9, 11:24	TYPE DMR CAP, 5000 INSIDE	NO. 4114 LOC. 1080 OUTSIDE X	HRS. 11:02
H 531 FH 531 IF-1 29 FF-1 148 IF-2 157 FF-2 293 SIP-1 373	i i		H FH FF-1 FF-2 9P-1	647 51	

#### **GAS RATES**

TIME	SIZE	SURFACE Pressure	FLOW RATE MCF/D	REMARKS

NO GAS TO SURFACE

苕 뙲 200 8 DMR Pressure Plot ToolType 4114 Engineer: Lee Wh Start Deptir 1060 5.07 1034-1062 11:0200 AM 872358 1 ¥. Test transit Test Date: 3.81 3.81 2.54 Delta Time (Hours) 254 3.17 Locator: E2 OF NE4 15 14N 25E Formation: SUPA 1.91 <u>e</u>. 8 8. CompaniPETROBUN Wer 15:1 NAM #1 2 8 ġ (4) emissegmeT

1

biezeme (b2I) <u>5</u> 8 DMR Pressure Plot Start Deptit 1020 4004 Tool Type: 5.07 11:24:00 AM 1034-1062 6/23/96 Test Date. 3,81 2.54 Delta Timo (Hours) Pressure (PS)
----Temperature (F)
2.54 3.17 E2 OF NE4 15 14N 20E SLPA N Formation 191 **£** 127 2 **3**. CompanyPETROBUN 96.91 4 5 8 (4) enulareques

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MOUNTAIN STATES WELL LOGGING CO. MORNING REPORT PETROSUN EXPLORATION AND PRODUCTION COMPANY 15-1 NMAL, S14,T14N,R25E, APACHE CO. AZ

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DATE: 7/4 TIME: 7 A.M PTD: 3648 PRESENT OPS: Running CSO
PRATE: FM: Granite Wash TOPS:
BKGRD GAS:CONN GAS:
TRIP GAS: DEPTH:
LITHOLOGY: Blougut zone was a clean porcus 30 ft. sand that appears to correlate south to Pan Amis NMALTI-A
SHOWS:
NB #: 3 AT: 2703 BIT TYPE: RTC 62A BIT #: 3 MADE: 945 in 97 % hrs
WOB: RPM: PP: SPM: MM RPM:
CARBIDE LAG =:MIN:@:
comments: Drid 35' in 5'2 hrs. Circ. For logs. Logged. TIH. Cond. to run asg. ToH. Laid down d.p. + d.a.'s. Removed BOP. Daily Cost \$16,598 Total Drig. Cost \$211,125
SAMPLE QUALITY:
REPORT FOR MR.: Gordon Le Blanc
PREPARED BY: John Somers



## MOUNTAIN STATES WELL LOGGING CO. MORNING REPORT PETROSUN EXPLORATION AND PRODUCTION COMPANY 15-1 NMAL, S15,T14N,R25E, APACHE CO. AZ

DATE: 7/3/96	TIME:	7:00 AM	PTD:	3613	PRESE	ENT	OPS: _	DRILLING
P RATE: 7 fp	ph FM:	GRANITI	E WAS	SH	TO	PS:	GF	RANITE WASH-3536
BKGRD GAS:	4C	ONN GAS	: 	5_				
TRIP GAS:	DE	PTH:						
LITHOLOGY: (	QTZ-ORA MINERAL HAD 18 U	N, CLR, F S , ABNT NITS OF (	ROS, LGE B GAS A	ANG, F IO BOC T 3566,	RAC, AE DKS, NO SA	MPL	MICAS E SHO	, ABNT DK GN
SHOWS: 1 SE	E REPOR	रा	<del></del>					
NB#: 3 AT:	2703	BIT TYPE	<b>:</b> :	RTC 6	3 E	3IT #	t:N	IADE: 188' IN 23 1/4 HRS
								_MM RPM:
CARBIDE LAC	3 =:	_MIN:@:						
								SAYS MR. ROGERS
COMMENTS:	TO 10.0	LOST PA WEEP RE	RTIAL	RETUR	RNS @ 3	3502	'. MIXE	WT TO 10.7 AND WL ED 5 BBLS W/LCM, Y COST- \$10,146, CUM
REPORT FO								·



# MOUNTAIN STATES WELL LOGGING COMPANY DAILY SHOW REPORT PETROSUN, 15-1 NMAL APACHE CO., AZ

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DATE TO SUCKE A DITERMAL 2565 2566 TOTETO 1	
DATE: 7/2/96 SHOW #: 4 INTERVAL: 3565-3566 TOT FTG: 1	
PTD: PRESENT OPS: DRILLINJG	
DRLG RATE: BEFORE: 8.5 DURING: 7.5 AFTER: 7	
MD WT: IN:OUT: OIL ON PITS?:	
GAS READINGS	
CHROMATOGRAPH READINGS IN MOLE PERCENT	
TOTAL GAS CALIBRATION-1%METHANE=100 UNITS TOTAL GAS	
TOTAL C1 C2 C3 C4 C5 C6 BEFORE 4 0.03 0.01	
DURING 18 0.12 0.03 0.01	
AFTER 4 0.03 0.02	
LIMITOLOGY OTT LED DY ODAN PDOC OLD IDIOONIC PDAC ADMITMICA	
LITHOLOGY: QTZ-MED-DK ORAN, FROS, CLR, UNCONS, FRAC, ABNT MICA	
AND DK GN MINERALS, ABNT FREE MICA BOOKS IN SAMPLES, SOME ORAN CHT	
SOME ORAN CHI	
REMARKS:	
SHOW RECOGNIZED AND EVALUATED BY JIMMIE A. BALES AT: 2:00 AM	
SHOW REPORTED TO.: GORDON LeBLANC @: 2:00 AM	
RECOMENDATIONS: DRILL AHEAD	
RECOVENDATIONS. DRILL AFFEAD	130
ACTION TAKEN: DRILLED AHEAD	शिश्
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37 10192	12122 150

MT STATES WELL LOGGN

PAGE 01

07/02/1996 15:01 520-521-0355

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MOUNTAIN STATES WELL LOGGING CO. MORNING REPORT PETROSUN EXPLORATION AND PRODUCTION COMPANY 15-1 NMAL, S15,T14N,R25E, APACHE CO. AZ

DATE: 7/2/96	TIM	E: 7:00 AM	PTD:	3425	PRESENT	OPS:	DRILLI	NG
PRATE: 8 F	PH F	M: PENN			_TOPS:		FIRST LS-29	90
BKGRD GAS:	3	CONN GAS	):	5		<del>~</del> _		
TRIP GAS:		DEPTH:						
	FROS (	CONGL'C.	CHT-BF	RT ORA	N, SEMI TR	CANSL.	HY'C, QTZ-CI	
	2703	BIT TYPE					MADE: 229' IN MM RPM:	23 1/2HRS
CARBIDE LAG	G =: CRYSTA	MIN:@: AL CLEAR M	ORNIN	IGS, M	SNOONS	FORC	AST FOR PM.	** ** · · · · · · · · · · · · · · · · ·
COMMENTS:	COST	D PIT. MW \$184,381 F RE DRLG C	LAN T	O MUE	UP FOR W	VATER	COST \$9612, LOSS CONTR JER PENN	CUM
REPORT FO	R MR	GORDONI	.eBLAN	IC				
1141 011110	, 1 1411 1						Æ,	हित्रिक विश्व
PREPARED	BY: JO	HN SOMER	Ž\Ĵ!WĬ\	IE BAL	ES	** *** * ***	13/4	W 1996

111 10:10; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50; 10.50

Page 1 of 1: Monday, July 01, 1996-12:00:32 PM

From: JIMMIE A. BALES MOUNTAIN STATES WELL LOGGING CO Fax: 520-521-0355 Voice: 520-521-0355

## MOUNTAIN STATES WELL LOGGING CO. MORNING REPORT PETROSUN EXPLORATION AND PRODUCTION COMPANY 15-1 NMAL, S15,T14N,R25E, APACHE CO. AZ

				PS: DRILLING
P RATE: 10 F	PH FM: PENN		TOPS:	?
BKGRD GAS:	4CONN GAS	S:6		
TRIP GAS:	DEPTH:			
LITHOLOGY: §	SH-RD-BN, FRM, L KLN, SLTST-ORAN	MY, LS-LT GY I-BN, FRI CAL	, CRM, MIC XL C AND SH-ME	N. ANHY,LT GY, CLR, F D GY, FRM V/LMY
-				
-				
-				
SHOWS: NON				
NB #: 3 AT:	BIT TYP	E: RTC 6	3BIT#:_	MADE: <u>277' IN 23 1/2 HRS</u>
WOB:3	35000 RPM:	65PP:_	1200_SPM: _	45 MM RPM:
CARBIDE LA	G =: <u>36</u> MiN:@:	2919		
	LEASANT BLUE		NTLE SUMME	R BREEZES
COMMENTS	JETTED PITS TO	LOWER MUD	WT AND INC	REASE PENETRATION,
OOMMENTO	MW-11.0, VIS-30,	CL-206,000 p	om. DAILY CO	ST \$6870, CUM COST-
	\$174,769			
	COMPARISON-C	ARR'S PENN	TOP-2980 OU	RS ? NOTE: GAS
			ON THE WEE	B 30-1 WELL. NZ 15-1 IS 325
	HIGH TO THAT V	VELL		
			· <u>·</u>	
REPORT FO	R MR.: GORDON	LeBLANC		
				ENT 181920212
PREPARED	BY: JOHN SOME	RS/JIMMIE BAI	ES	The above
				E JUL 18

# MOUNTAIN STATES WELL LOGGING COMPANY DAILY SHOW REPORT PETROSUN, 15-1 NMAL APACHE CO., AZ

JAIC. HIS					326 <i>3</i>	268 ذ-	10	FFG:	5	
		RESENT C		_						
ORLG RATE:	BEFORE	: <u>    6                                </u>	_DURIN	1G:	3	_ AF	TER:	7,5		
MD WT: IN:	<u>11.1 OU</u> 1	Γ:	OIL ON	PITS?	: NO_1	<u>∕IS=29</u>		. دید حست		
			GAS	READI	NGS					
		1ATOGRA								
TOTA		ALIBRAT						= :		
BEFORE	TOTAL 5	C1 0.04	C2	C:	; 	C4	C5	7 C		
DURING	40	0.32	0.05	<u> </u>	닉늗			╣	<del> </del>	
AFTER	5	0.04	0.03		<b> -</b>			╣┝━━	=	
• • • • • • •		0.04	0.01	! L	<b></b> -! !			<u> </u>		
LITHOLOGY	r: SS- WH	I, SB-ANG	, L. VFG	WELL	SORT	FRI T	O FRM	LMY N	10	
		E SHOW								
	<del></del>		<del></del>				<u> </u>		<del></del>	
								_		
		·								
			<del></del>							
	<del></del>				<del></del>			_,		
		<del></del>					-			
REMARKS:		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						<del>_</del>	***	
-								<del></del>		
•		<b></b>		<del></del>		<u></u>		<del>-</del>		
•								~		
SHOW RECO	OGNIZED	AND EV	ALUATE	DBY	JIMMI	EA.B	ALES	AT:	2:45PM	
SHOW REPO	ORTED TO	O.: JOHN	TEMPLI	N				<b>@</b> :	14:45	
RECOMEND	DATIONS	·								10.45
ACTION TA	KEN: <u>DR</u>	ILL AHEA	D						1817 18	13(1)(1)(1)(2)(2)(2)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)
								E	T. N.	96 ,555
								61.1	JIL 10	it of Cal
									E AR	O'JEVET S

MOUNTAIN STATES WELL LOGGING CO. MORNING REPORT PETROSUN EXPLORATION AND PRODUCTION COMPANY 15-1 NMAL. S15,T14N,R25E, APACHE CO. AZ

DATE: 6/30/96	TIME: 0:700AM PTD:	2919 PRES	SENT OPS:	DRILLING
P RATE: 10 FPH	FM: LOWER SUPA	T(	DPS:	
BKGRD GAS:2	CONN GAS:	.3		
TRIP GAS:	DEPTH:			
CAL		ARR'S COCO	NINO TOP 530'. 980, ACTUAL ?'	SFT, SLI TO MOD
SHOWS: NONE				NT 040(N) 044(0 N)D0
NB #: 2 AT: 2	703 BIT TYPE:	RTC 63	BIT #:MAL	DE: 216'IN 21 1/2 HRS
WOB:3000	00 RPM: 65	PP: <u>1100</u>	SPM:M	IM RPM:
CARBIDE LAG =	36 MINMIN:@: 2919'			
WEATHER: COC	L AND HEAVY OVER	CAST, A HOF	RSESHOE PITC	HING DAY
	HW BIT 2. RESUMED			
JE	TTED SH PIT TO LOV	VER WT. MW	10.4,VIS31, CL	102,000. SURVEY
28	88, 1/2. DAILY COST	\$11,399, CUM	COST \$167,89	99
				· · · · · · · · · · · · · · · · · · ·
REPORT FOR N	IR.: GORDON LeBLAI	NC		
PREPARED BY:	JOHN SOMERS/JIMI	MIE BALES		11919202

SEPESTIFIED SON

Page 1 of 1 Saturday, June 29, 1996 10:26:07 A

From: JIMMIE A. BALES MOUNTAIN STATES WELL LOGGING CO Fax: 520-521-0355 Voice: 520-521-0355

## MOUNTAIN STATES WELL LOGGING CO. MORNING REPORT PETROSUN EXPLORATION AND PRODUCTION COMPANY 15-1 NMAL, S15,T14N,R25E, APACHE CO. AZ

DATE: 6/29/96	TIME	7:00 AM	PTD:	2703	PRESE	IO TV	PS:	TRIP	PING F	OR NB 2
P RATE:	FN	1: LOWER	SUPA	<u> </u>	TOP	S:				
BKGRD GAS:	0 (	ONN GAS	S:	0						
TRIP GAS:	_									
LITHOLOGY: S	H-DK R	D-BN, SFT	TO FF	RM, SLI	TO MOD	CAL	C			
							<del></del>			
-										
~										,
-				······································						
SHOWS: NOÑ	E									
NB #: 2 AT:		BIT TYPE	Ξ:	RTC 6	3 BI	T #:	1	MADE:	2093	N 102 HRS
WOB:										
CARBIDE LAC	3 =:	MIN:@:								
WEATHER: F					ANT MOR	NINC	3			
COMMENTS:	DRLD 3	72' IN 20 1	/2 HRS	s. SUR	VEY @ 2	573-	3/4.	MW=1	0.8, VIS	5=29.
		COST \$691								
				*****						
						·		·		
										, , , , , , ,
REPORT FO	R MR.: 0	SORDON L	_eBLAN	1C		************			(5/6)	1181920212
									E R	1996 , Si
PREPARED	ву: Јон	N SOMER	NINS	ME BAI	ES_					ENVIO OFFI
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# MOUNTAIN STATES WELL LOGGING CO. MORNING REPORT PETROSUN EXPLORATION AND PRODUCTION COMPANY 15-1 NMAL, S15,T14N,R25E, APACHE CO. AZ

DATE: 6/28/96	_ TIME: 7:00 AM P	TD: 2331	PRESENT C	PS:DF	RILLING
P RATE: 254 F	PH FM: LOWER SL	JPAI	TOPS: _	FT APAC	HE-1702
BKGRD GAS: _	2 CONN GAS:	4			
TRIP GAS:	DEPTH:		_		
LITHOLOGY: <u>S</u>	LTST-RD-ORAN DK	RD-BN FR			
-					
-					
SHOWS: NON		070.115	FOA DIT#	MADE	
NB #: 2 AT:	610 BIT TYPE:	RICHP	53A BII #:	WADE:	
WOB:3	0000 RPM:	65 PP:	1000_SPM:_	_ <u>56</u> MM RP	M:
	G =: <u>17</u> MIN:@: <u>17</u>				
WEATHER: T	HE LIZARDS WILL B	E KICKING	TODAY		
COMMENTS:	SURVEY @ 2021-1	1/4, SURVE	Y @ 2112 1 1	12, SURVEY @	2299-3/4
	DAILY COST \$7605,	CUM COS	T \$149,583		
			<del></del>		
			<u></u>		
REPORT FO	R MR.: GORDON Lef	BLANC			77 18 1920 x
					E. W. C.
PREPARED	BY: JOHN SOMERS	JIMMIE BA	LES		1996

Cococo INEGER 874

1,0

From: JIMNIE A. BALES MOUNTAIN STATES WELL LOGGING CO 5 20-521-0355 Voice: 520-521-0355

## MOUNTAIN STATES WELL LOGGING CO. MORNING REPORT PETROSUN EXPLORATION AND PRODUCTION COMPANY 15-1 NMAL, S15,T14N,R25E, APACHE CO. AZ

DATE: <u>6/27/9</u> 6	_ TIME:	7:00 AM	PTD:	1990	PRESENT	OPS:	DRILLING
P RATE: 8-15 I	PH FM	1: LOWER	SUPAI		TOPS:		FT APACHE-1702*
BKGRD GAS:	0 0	ONN GAS	<b>3</b> :	0			
TRIP GAS:							
Ē	N-RD S	HALE OCC	CASION	VAL AN	HY AND SA	ALT ST	I-CALC SOME DK RINGER N SEC 18
WOB:2	610 0000	RPM:	65	_PP: _1	050 SPM	: 58	MADE: _ 276' IN 21 HRS MM RPM:
CARBIDE LAC						<del></del>	
	DRLD T TOOH F @6:30 F	O 1770', S OR HOLE PM. SURV	URVEY IN CO	( @173 LLAR. 1828' 1	9 1 1/2, IN	N 2 DC /EY @	TO 25,000. LOST PRESS. C'S. RESUMED DRILLING 1922' 1 3/4. MW 10.4, VIS
REPORT FOR	R MR.: <u>G</u>	ORDON L	eBLAN	IC			
PREPARED I	BÝ: JOH	N SOMER	S/JIMN	IIE BAL	ES		E16171819202

MOUNTAIN STATES WELL LOGGING CO. MORNING REPORT PETROSUN EXPLORATION AND PRODUCTION COMPANY 15-1 NMAL, S15,T14N,R25E, APACHE CO. AZ

DATE: 6/26/96	5 TIME: 7:00 AM	PTD: 1714	PRESENT O	PS: drlg
PRATE 8 fr	h FM: SUPAI		TOPS: _	
BKGRD GAS:	2 CONN GAS	S: <u>5</u>		
TRIP GAS:	DEFIN		-	
(	LS-LT GY-BN, LT E OOLMOLDIC, PEL OOLM POR , NO S	<u>, ABNT ANHY</u>	INCL, SM SAI	I, FRM, OOL'C AND T CASTS, FR VUG AND
SHOWS: NO	VE			
NB#: 2 AT:	610 BIT TYP	E: RTC HP	53-A BIT #:	MADE: 407' LAST 24 HRS
WOB: 2	20000 RPM:	65 PP:	850_SPM:_	MM RPM:
CARBIDE LA	G =: <u>17</u> MIN:@:	1707	<u>, , , , , , , , , , , , , , , , , , , </u>	
WEATHER: V	VINDS STARTING	EARLY, WE N	MAY NEED SC	ME TIE DOWNS TODAY
COMMENTS:	DRLD TO 1363, S	SURVEY 1 3/4.	CIRC FOR S	AMPLES @1377-85, SURVEY
	@1426- 1 3/4, DA	ILY COST 872	8, CUM COS	T \$135,612
			<u>,</u>	
REPORT FO	R MR.: GORDON	LeBLANC		
,,_, ,,,,,,				
PREPARED	BY: JOHN SOMER	RS/JIMMIE BA	ES	



MOUNTAIN STATES WELL LOGGING CO. MORNING REPORT PETROSUN EXPLORATION AND PRODUCTION COMPANY 15-1 NMAL, S15,T14N,R25E, APACHE CO. AZ

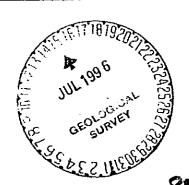
3.22

DATE: 6/25/9	6 TIME: 7:00 AM PTD: 1307 PRESENT OPS: DRILLING
P RATE: 15-4	Ofph FM: SUPAI TOPS:
BKGRD GAS:	2* CONN GAS:
TRIP GAS:	36 DEPTH: 1228
LITHOLOGY:	PRED SLTST-MED DK RD-ORAN, RD-BN, FRM-FRI, NON TO V/SLI CALC W/SM SH INCL. 20% ANHY, LT GY, F XLN, 10% RD-BN SH *CARRYING 6 UNITS CO 2 EVER SINCE REPLACING MUD WITH BRINE WATER.
	NE : 610 BIT TYPE: RTC HP-53A BIT #: MADE:
MOR	20000 RPM: 70 PP: 850 SPM: 60 MM RPM:
	G =: MIN:@:
•	WARM, CLEAR, WINDYPM PLEASANT AM
COMMENTS	SW ARRIVED A 5 PM. UNLOADED SW & DISPL CONTAMINATED MUD W/BRINE WTR, WELL DEAD. 6 UNITS BACKGROUND GAS. REMOVED CK ASS. TOH REMOVE AND REPLACE BOP. TIH RESUMED DRLG @ 3 AM DEV 2 1/4 @ 1238. DAILY COST \$9390, CUM COST \$126,884
REPORT FO	OR MR.: GORDON LeBLANC
PREPARED	BY: JOHN SOMERS/JIMMIE BALES



MOUNTAIN STATES WELL LOGGING CO. MORNING REPORT PETROSUN EXPLORATION AND PRODUCTION COMPANY 15-1 NMAL, S15,T14N,R25E, APACHE CO. AZ

DATE: 6/24/96 TIME: 0700am PTD: 1228 PRESENT OPS: WO BRINE WATER
PRATE:TOPS:
BKGRD GAS: 14 CONN GAS: DTG=26 UNITS
TRIP GAS: 66 DEPTH: 1062
LITHOLOGY: ANHY, ORAN SH AND SLT, SOME GYP
SHOWS: 1 SEE REPORT
NB #: 2 AT: 610 BIT TYPE: RTC HP53A BIT #:MADE:
WOB: 20000 RPM: 70 PP: 850 SPM: MM RPM:
CARBIDE LAG =:MIN:@:
WEATHER: THINGS ARE HEATING UP
COMMENTS: COND MUD TEST. POOH, RU DST # 1. 1034-1062 OP15', SI30", OP30', SI60'
REC 200'MW,305'FILTRATE WATER. Rw.0306@80 deg fIHP547.IFP51,FFP167,ISIP388(30MIN). 2ND IFP178, 2ND FFP 308,
SIP(60MIN)391. RESUMED DRLG @ 8:30PM. DRLD TO 1145'. SD @10:15
TO TREAT
MUD. RESUMED DRLG @4:45AM, DRLD TO 1228' BLEW OUT @5:05AM,
SI BOP, GAS 100% C1. DAILY COST \$12,310, CUM COST \$117,494/
REPORT FOR MR.: GORDON LeBLANC
PREPARED BY: JOHN SOMERS/JIMMIE BALES



MOUNTAIN STATES WELL LOGGING COMPANY DAILY SHOW REPORT PETROSUN, 15-1 NMAL APACHE CO., AZ

DATE: 6/23/96 SHOW #: 2 INTERVAL: 1207-1228 TOT FTG: 21?								
PTD: 1228 PRESENT OPS: WAITING ON BRINE WATER								
DRLG RATE: BEFORE: 0.5 DURING: 0.3 AFTER:								
MD WT: IN: 10 OUT: OIL ON PITS?: NO								
GAS READINGS								
CHROMATOGRAPH READINGS IN MOLE PERCENT TOTAL GAS CALIBRATION-1%METHANE=100 UNITS TOTAL GAS TOTAL C1 C2 C3 C4 C5 C6 BEFORE 14 0.12%								
LITHOLOGY: WELL BLEW OUT AT 1228, NO SAMPLES RECOVERED, INSTRUMENTS SATURATED BEFORE SHUTTING IN BOP. GAS IS 100% METHANE								
REMARKS: UNABLE TO DETERMINE EXACT FOOTAGE ON GAS ZONE DUE TO FAST DRILLING RATE								
SHOW RECOGNIZED AND EVALUATED BY JIMMIE A. BALES AT: 505am								
SHOW REPORTED TO:: JOHN SOMERS @: _5:30								
RECOMENDATIONS:								
ACTION TAKEN:								
JIII 1996								

MOUNTAIN STATES WELL LOGGING CO. MORNING REPORT PETROSUN EXPLORATION AND PRODUCTION COMPANY 15-1 NMAL, S15,T14N,R25E, APACHE CO. AZ

\$200,000

DATE: 6/23/96 TIME: 7:00 AM PTD: 1062 PRESENT UPS: CONDITIONED FOR DSTITE
PRATE:TOPS:
SKGRD GAS: 4 CONN GAS: 0
TRIP GAS: DEPTH:
LITHOLOGY: ANHY-LT GY, WH, F XLN AND GYP-CLR, WH, SFT W/ STRINGERS OF DK RD-BN MDST AND V/ THIN SALT STRINGERS
SHOWS: 1-SEE REPORT
NB #: 1 AT: 610 BIT TYPE: RTC HP53A BIT #: MADE:
WOB: 35000 RPM: 70/75 PP: 850 SPM: 60 MM RPM:
CARBIDE LAG =:MIN:@:
WEATHER: HOT W/PARTS OF ARIZONA VISITING NEW MEXICO
COMMENTS: FINISHED MIXING SALT MUD. RESUMED DRLG @10 A.M. SURVEY @677' 1/2. INC. PP TO 850 PSI & BW TO 35,000#. SURVEY AT 1021'=1 1/2 SO SI ACKED OFF TO 20,000#. SHOW IN DOL @ 1030-1042'. PULLED
UP INTO CSG TO CIRC AND COND MUD. RIH. CIRC ANC COND FOR
DST#1. 44 UNITS TRIP GAS. MW 9.4, VIS 35, WL 10.4, CL 27,000. DAILY COST
\$8907 CUM COST \$105,184.00
40007 00M 0001 4700110
REPORT FOR MR.: GORDON LeBLANC

PREPARED BY: JOHN SOMERS/JIMMIE BALES

#### MOUNTAIN STATES WELL LOGGING COMPANY DAILY SHOW REPORT PETROSUN, 15-1 NMAL APACHE CO., AZ

OWNER!

DATE: 6/22/96 SHOW #: 1 INTERVAL: 1030-1042 TOT FTG: 12'
PTD: 1062 PRESENT OPS: PULLED 60', CIRCULATION
DRLG RATE: BEFORE: 0.8 DURING: .85 AFTER: 1.2
MD WT: IN: 9.4 OUT: 9.4 OIL ON PITS?: NO
GAS READINGS
CHROMATOGRAPH READINGS IN MOLE PERCENT TOTAL GAS CALIBRATION-1%METHANE=100 UNITS TOTAL GAS TOTAL C1 C2 C3 C4 C5 C6 BEFORE 2 2.00%
VUGGY POR, FEW PCS W/ TR MTX POR, VUGGY POR HAS WXY  APPEARANCE, NO FLO, SLO SPREADING AND SLOW STRMG  CUT, PL YEL CUT FLO
REMARKS: THE POROSITY SEEMS TO BE IN THE BOTTOM 4' OF THE DOLOMITE ZONE, HOWEVER, THE VUGGY ZONE COULD BE SCATTERED THROUGHOUT. THEREFORE I WOULD
RECOMMEND SETTING THE BOTTOM PACKER 3' INTO THE TOP OF THE DOLOMITE AND THE TOP PACKER IN THE ANHYDRITE
SHOW RECOGNIZED AND EVALUATED BY JIMMIE A. BALES AT: 21:30
SHOW REPORTED TO.: JOHN SOMERS @: 22:30
PEGOL CIAID ATTONIC DOT
ACTION TAKEN:
JUL 1996  JUL 1996  GEOLOGICAL  GEOLOGICAL
ES MEDICAL 87

MOUNTAIN STATES WELL LOGGING CO. MORNING REPORT PETROSUN EXPLORATION AND PRODUCTION COMPANY 15-1 NMAL, S15,T14N,R25E, APACHE CO. AZ

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TOTAL COLUMN

DATE: 6/22/96	TIME: 0700AM PTD:	620	PRESENT	OPS:	MIXING MUD SUPAI 528
D DATE.	FM: SUPAI				
BKGRD GAS: TRIP GAS:0	0 CONN GAS: DEPTH:0	0			0
LITHOLOGY: _					
-					
SHOWS: NON	E				
		RTC HE	53-A BIT	#:	MADE:
MOR.	RPM:	PP:	SPIV	l	141141 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	MINI-M				TO MOVE CTEE!
WEATHER: C	LEAR AND HOT, WINE	) L/(, L/	2 22 45DM	MO	TRUCK TO MOVE STEEL
COMMENTS:	D.O. CMT & DRLD TO	617'. S	D @2:15PW	ON F	TRUCK TO MOVE STEEL OR MUD PIT, HOOKED UP
					DAILY COST \$6781.
	PIT, PUMP AND FLOV	VLIIVE.	MINED ONE	. 10.01	
	CUM COST \$96277.				
				<u>.                                  </u>	
REPORT FO	R MR.: GORDON LeBI	LANC			
DDEDARED	BY: JOHN SOMERS/J	IMMIE A	. BALES		



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## MOUNTAIN STATES WELL LOGGING CO. MORNING REPORT PETROSUN EXPLORATION AND PRODUCTION COMPANY 15-1 NMAL, S15,T14N,R25E, APACHE CO. AZ

DATE: 6/21/9	96 TI	ME:	0700am	PTD:	610	PRESE	ENT OPS:	PREP T	ODRL	CMT
P RATE:		FM:	SUPAI	-		TO	PS:	REVISED S	UPAI-52	28'
BKGRD GAS TRIP GAS: _	:0	c	ONN GAS	S:	0					
LITHOLOGY:	SLTS NOTE	T-ME :286	D-DK RI	D-BN, S D ARKI	SDY. TF LA'S NN	R DOL-L MA#3 IN	T GY, CR NW NW	M TO FRI. M V/SDY. SEC 18-DA	AILY CO	ST
SHOWS: NO	NE				<del></del>					
NB#: 2 A			BIT TYPE	E:R	TC HP5	3-A E	3IT #: <u>1</u>	MADE: _ 6	10' IN 3	3HRS
WOB:										
CARBIDE LA WEATHER: COMMENTS	PART S: RAN CM1	LY C I 14 J ID W	LOUDY, 0 ITS 8 5/8'	SURF	PLEAS CSG. S 2% GEL	ANT SET @ 6 . +5%KC	509'PMP	D A 50 BBL CMT TO SU 180'	PILL O	F LCM.
SAMPLE Q	UALIT	ſ:			·		<del> </del>			
REPORT F	OR MF	R.: <u>G</u> (	ORDON L	eBLAN	NC			-	· · · · · ·	
PREPARE	O BY: J	OHN	SOMER	S/JIMM	MIE BAL	ES _	·	1318 IST	1996	A CONTRACTOR OF THE PARTY OF TH



# MOUNTAIN STATES WELL LOGGING CO. MORNING REPORT PETROSUN EXPLORATION AND PRODUCTION COMPANY 15-1 NMAL, S15,T14N,R25E, APACHE CO. AZ

P RATE:	TIME: 7:00 AM PTD: FM: SUPAI		TOPS:		COCONINC	)-197'
BKGRD GAS:	0 CONN GAS:	0			SUPAI-57	
LITHOLOGY: <u>SL</u>	TST-DK BN ORAN, SD					
SHOWS: NONE NB #: 1 AT: _ WOB:	BIT TYPE:	htc j-1	1BIT	#: <u>1</u> N	MADE:	610'
CARBIDE LAG	=:MIN:@:					
COMMENTS: D	RLD TO 393', LOST CII 10', CIRC SAMPLES, LO	RC AT 3 OST CIF	3:45PM, MIX RC. POOH	ED 2-5 RV TO	0 BBL PILLS RUN CSG	DRLD TO
SAMPLE QUAL	ITY: POOR-BY-PASS S	SHAKEF	l .			
REPORT FOR	MR.: GORDON LeBLA	NC				
PREPARED BY	Y: JOHN SOMERS, JIM	MIE BAI	_ES			



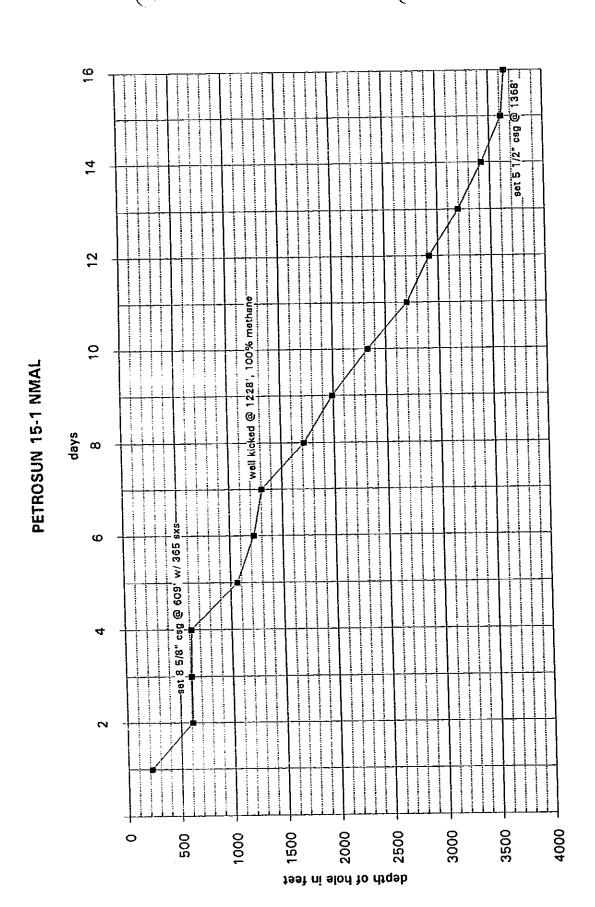
Page 1 of 1 Wednesday, June 19, 1995 10:51:16 AM

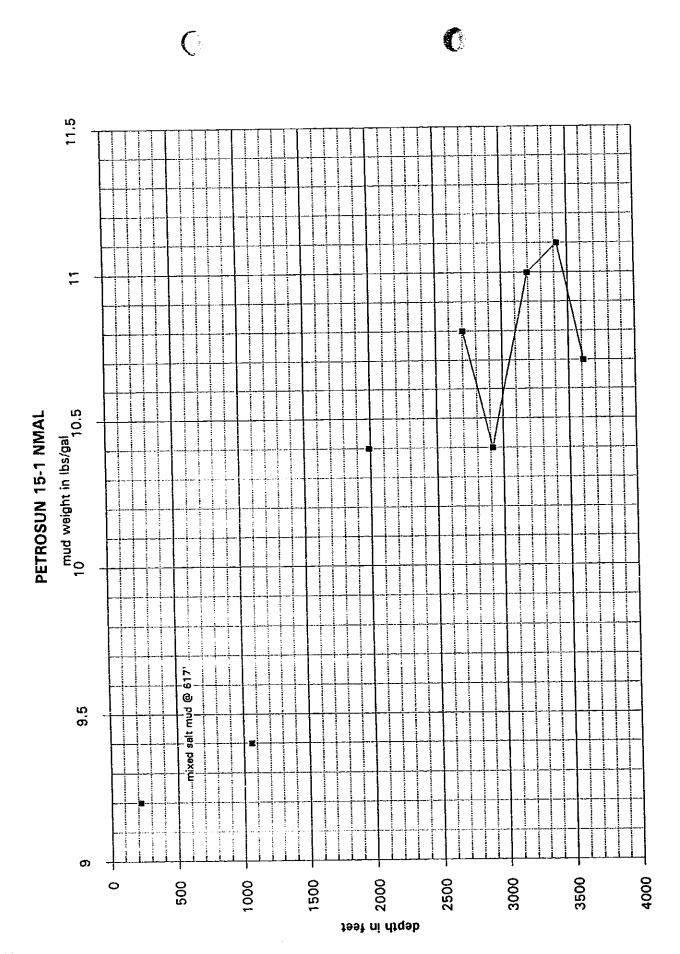
From: JIMMIE A. BALES MOUNTAIN STATES WELL LOGGING CO Fev: 606-632-0362 Voice: 605-632-0362 To: PETROSUN

# MOUNTAIN STATES WELL LOGGING CO. MORNING REPORT PETROSUN EXPLORATION AND PRODUCTION COMPANY 15-1 NMAL, S14,T14N,R25E, APACHE CO. AZ

P RATE:	DATE: 6-19-9	6 TIM	1E: 0700AN	/I PTD:	221	PRESENT	OPS:	DRIL	LING
SHOWS: NONE  NB#: 1 AT: 0 BIT TYPE: HTC J-11 BIT #: MADE:  WOB: RPM: 80 PP: 200 SPM: MM RPM:  CARBIDE LAG =: MIN:@:  WEATHER:  COMMENTS: SPUDDED 12 1/4" SURF HOLE AT 10:30 AM. DRLD 221' IN 16 3/4 HRS DOWN 7 1/4 HRS FOR RIG REPAIRS. MW 9.2, VIS 33, WL 14, DAILY COST 5587, CUM. COST 53,860.00  SAMPLE QUALITY: GOOD	D DATE:			MINO		TOPS:		COCONING	)-197'
SHOWS: NONE  NB#: 1 AT: 0 BIT TYPE: HTC J-11 BIT #: MADE:  WOB: RPM: 80 PP: 200 SPM: MM RPM:  CARBIDE LAG =: MIN:@:  WEATHER:  COMMENTS: SPUDDED 12 1/4" SURF HOLE AT 10:30 AM. DRLD 221' IN 16 3/4 HRS DOWN 7 1/4 HRS FOR RIG REPAIRS. MW 9.2, VIS 33, WL 14, DAILY COST 5587, CUM. COST 53,860.00  SAMPLE QUALITY: GOOD	BKGRD GAS:	0	_CONN GA	\S:	0				
SHOWS: NONE  NB#: 1 AT: 0 BIT TYPE: HTC J-11 BIT #: MADE:  WOB: RPM: 80 PP: 200 SPM: MM RPM:  CARBIDE LAG =: MIN:@:  WEATHER:  COMMENTS: SPUDDED 12 1/4" SURF HOLE AT 10:30 AM. DRLD 221' IN 16 3/4 HRS DOWN 7 1/4 HRS FOR RIG REPAIRS. MW 9.2, VIS 33, WL 14, DAILY COST 5587, CUM. COST 53,860.00  SAMPLE QUALITY: GOOD	TRIP GAS:	0	DEPTH:	0				0	
SHOWS: NONE  NB #: 1 AT: 0 BIT TYPE: HTC J-11 BIT #: MADE:  WOB: RPM: 80 PP: 200 SPM: MM RPM:  CARBIDE LAG =: MIN:@:  WEATHER:  COMMENTS: SPUDDED 12 1/4" SURF HOLE AT 10:30 AM. DRLD 221' IN 16 3/4 HRS  DOWN 7 1/4 HRS FOR RIG REPAIRS. MW 9.2, VIS 33, WL 14, DAILY  COST 5587, CUM. COST 53,860.00  SAMPLE QUALITY: GOOD  REPORT FOR MR · GORDON I eBI ANC	LITHOLOGY: 5	SS-WI	I, VF-MED	GRS, FRI	M, SB-	ANG, SB-R	ND, LN	IY INPART, L	DOL'C IN
NB #: 1 AT: 0 BIT TYPE: HTC J-11 BIT #: MADE:  WOB: RPM: 80 PP: 200 SPM: MM RPM:  CARBIDE LAG =: MIN:@:  WEATHER:  COMMENTS: SPUDDED 12 1/4" SURF HOLE AT 10:30 AM. DRLD 221' IN 16 3/4 HRS  DOWN 7 1/4 HRS FOR RIG REPAIRS. MW 9.2, VIS 33, WL 14, DAILY  COST 5587, CUM. COST 53,860.00  SAMPLE QUALITY: GOOD  REPORT FOR MR · GORDON I eBI ANC									
WOB:RPM: _80 _ PP: _200 _ SPM:MM RPM: CARBIDE LAG =:MIN:@: WEATHER: COMMENTS: SPUDDED 12 1/4" SURF HOLE AT 10:30 AM. DRLD 221' IN 16 3/4 HRS	SHOWS: NO	NE							
CARBIDE LAG =:MIN:@:	NB #: _1_ AT:	:0	BIT TYI	PE:	ITC J-1	<u> 1</u> BIT	#:	MADE:	
CARBIDE LAG =:MIN:@:	WOB:		RPN	i: <u>80</u>	_PP: _	<u>200</u> SPM	:	MM RPM:	
DOWN 7 1/4 HRS FOR RIG REPAIRS. MW 9.2, VIS 33, WL 14, DAILY COST 5587, CUM. COST 53,860.00  SAMPLE QUALITY: GOOD  REPORT FOR MR · GORDON I eBI ANC	CARBIDE LA	G =: _	MIN:@	):					
DOWN 7 1/4 HRS FOR RIG REPAIRS. MW 9.2, VIS 33, WL 14, DAILY COST 5587, CUM. COST 53,860.00  SAMPLE QUALITY: GOOD  REPORT FOR MR · GORDON I eBI ANC	COMMENTS	: SPUI	DDED 12 1/	4" SURF	HOLE	AT 10:30 A	M. DR	LD 221' IN 10	3/4 HRS.
REPORT FOR MR GORDON I eBI ANC		DOW	N 7 1/4 HR	S FOR R	IG REF	PAIRS. MV	/ 9.2, V	IS 33, WL 14	, DAILY
5151617783m	SAMPLE QU	IALITY	: GOOD			- ·			
5151617783m						·			
PREPARED BY: JOHN SOMERS	REPORT FO	R MR	· GORDON	l i eBI AN	C				
$\kappa_{0}$	PREPARED	BY: J	OHN SOME	RS			······································	3191516	11181929

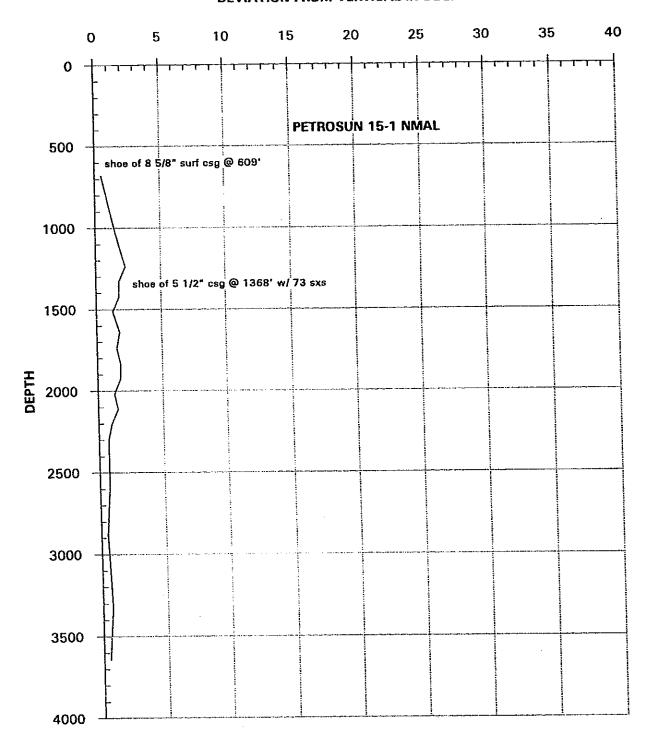


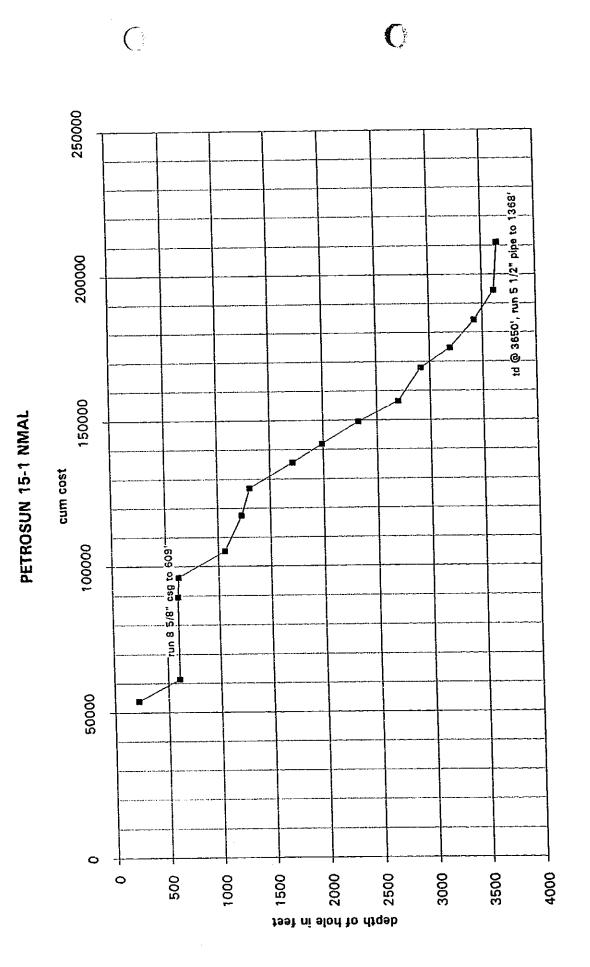


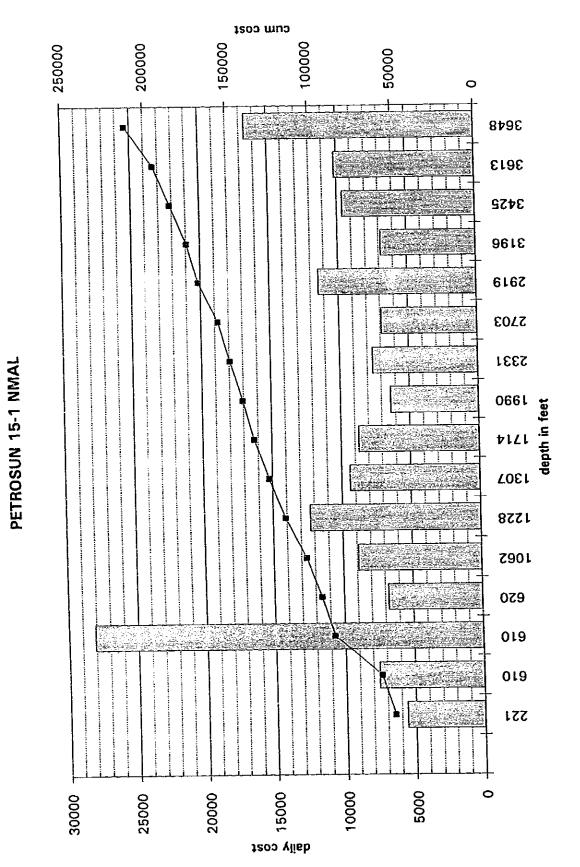


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**DEVIATION FROM VERTICAL IN DEGREES** 









### PERMIT TO DRILL

This constitutes the permission and authority from the

OIL AND GAS CONSERVATION COMMISSION, STATE OF ARIZONA,

To: PETROSUN EXPLORATION &	PRODUCTION INC.
COP	ERATOR)
to drill a well t	to be known as
15-1 N	NAT
(WELL	NAME)
located 1445' FNL &	1050' FEL
	E , APACHE County, Arizona.
The F2 OF	NEAof said
Section, Township and Range is dedicated to this	well.
Said well is to be drilled substantially as out in full compliance with all applicable laws, statut	lined in the attached Application and must be drilled es, rules and regulations of the State of Arizona.
Issued this 5 day of JUNE	, 19 <u>.96</u> .
	OIL AND GAS CONSERVATION COMMISSION
	By Stean L. Raria
	OIL & GAS PROGRAM ADMINISTRATOR

Permit to Drill

State of Arizona Oil & Gas Conservation Commission

FORM NO. 27

PERMIT 00894

RECEIPT NO. 3088

A.P.I. NO. 02-001-20306

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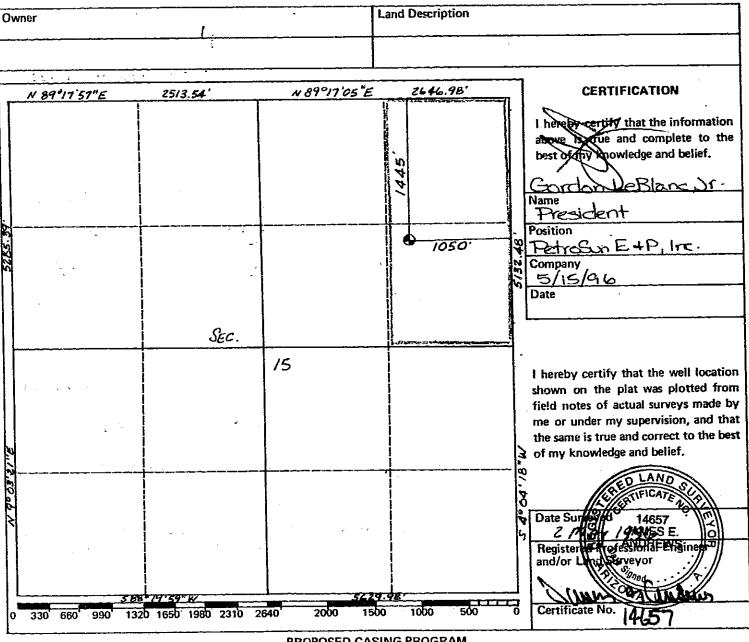
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7-5			<del></del>	
APPLICATIO	N FOR PERMIT	O DRILL OR R	E-ENTER	R
APPLICATION TO DRILL	-			LDWELL []
NAME OF COMPANY OR OPERATOR				
PETROSUN EXPLORATION & 1	PRODUCTION INC.			1165:
Address 6836 E. Ludlow	City <	Scottsdale		State AZ 85254
			•	7000 9 10300
Drilling Contractor United Drilling	Inc., An	gel Salazar	r 50	05-623-7730
Address POBOX 2488	Roswell, NM	28201		
	DESCRIPTION OF W			Elevation (ground)
Federal, State or Indian Lease Number, or if fee lea	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Well number	-	5552
New Mexico and Arizona Lan Nearest distance from proposed location		Distance from proposed	location to no	earest drilling,
to property or lease line:	i	completed or applied—fo	or well on the	
(East) 11,61	O feet	Number of wells on lease	including th	feet
Number of acres in lease:		completed in or drilling t	to this reserve	pir:
11,900 acres		N/A		
If lease, purchased with one or more wells drilled, from whom purchased:	2	Ade	dress	
Well location (give footage from section lines)	Section-townsl	nip-range or block and s	urvey	Dedication (Comply with Rule 105)
1445'FNL & 1050'FEL		14N, R25E, G&S	RB&M	E2 of NEH
Field and reservoir (if wildcat, so state) Wildcat		County Apache	<u> </u>	
Distance in miles, and direction from nearest town I 1/2 miles 5w of Hi	ent		·	
Proposed depth:	Rotary or cable tools Rotary		Sure	te work will start
Bond Status	Organization Report		Filing Fee	of \$25.00
Amount \$10,000	On file Or	attached X	Attached	Χ
Remarks:				•
API# 02-001-20306				•
CERTIFICATE: 1, the undersigned, under the p	enalty of perjury, state tha	t I am the Pres	sident	of the
TetroSun Exploration + Proreport was prepared under my supervision and o	detton (company), as direction and that the facts	nd that I am outhorized I stated therein are tive, o	by said compa	any to make this report; and that this omplete to the best of my knowledge.
		Signature	7	
		5-1	3-96	
		Date		
Permit Number: 894 Approval Date: Steven L	JUN 5 1998 Racing	1	Application to	OF ARIZONA RVATION COMMISSION Do Drill or Re-enter
Notice: Before sending in this form be su- all informationa requested. Much us ence will thus be avoided.	re that you have given nnecessary correspond-	Form No. 3	rile I	wo Copies

(Complete Reverse Side)

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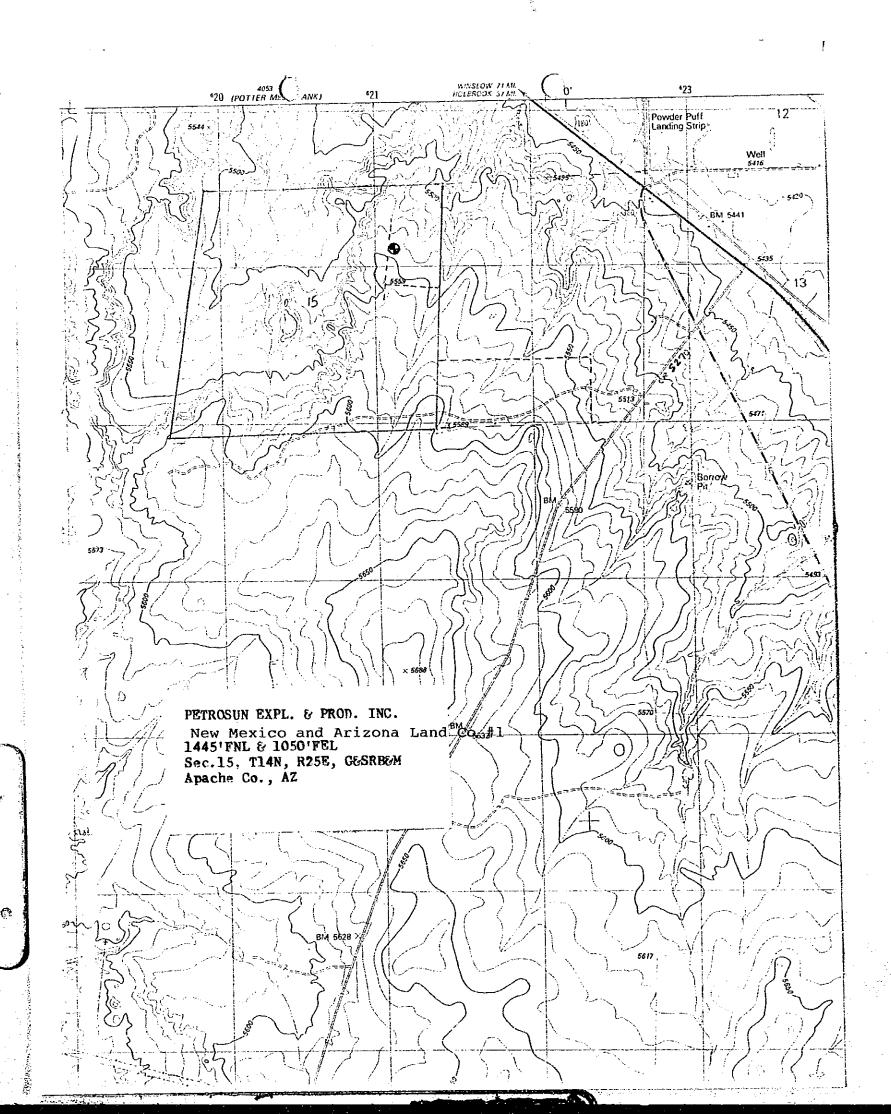
- 1. Operator shall outline the dedicated acreage for both oil and gas wells on the plat.
- 2. A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
- 3. ALL DISTANCES SHOWN ON THE PLAT MUST BE FROM THE OUTER BOUNDARIES OF THE SECTION.
- 4. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES X NO_____
- 5. If the answer to question four is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES_____NO____. If answer is "yes," Type of Consolidation______
- 6. If the answer to question four is "no," list all the owners and their respective interests below:



PROPOSED CASING PROGRAM 5td 5td Cementing Depths Sacks Cement Bottom Grade & Type Тор Size of Casing Weight 602 to surface ১১১ Surface 602 320 24#-85/0 1% Econolite 100% exes RangeIII 2% GEL News 5% KCL

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Establish !

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4053 II NW *20 (POTTER MESA TANK) Powder Puff Landing Strip Hunt 0 Q

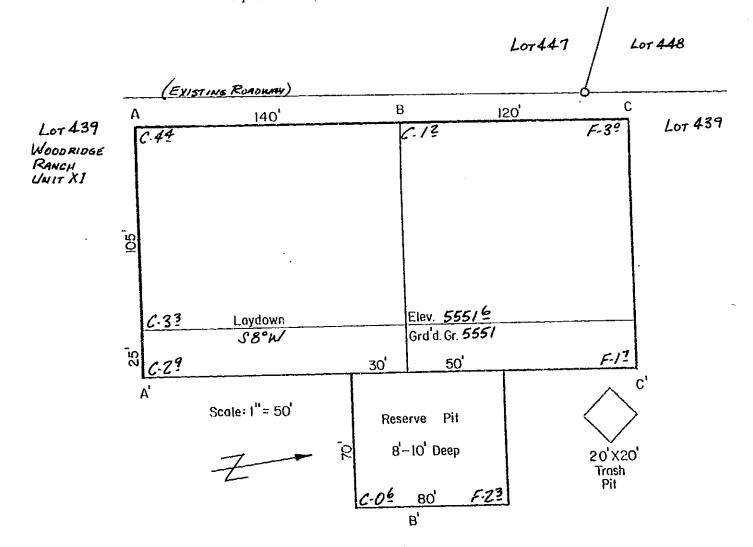
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PETROSUN EXPLORATION & PRODUCTION INC.

N Mexico and Arizona Land C #1
1445'FNL & 1050'FEL
Sec.15,T14N, R25E, G&SRB&M
Apache Co., AZ



A-A'	Vert.: 1" = 30	Horiz.: !"= 100'	C/	<u>′L</u>		
5560						
5550			77777	<u> </u>		
B-B'	<del></del>			1	1	
5560						
5550			4333 <del>33</del>	V		
		<u> </u>	<u> </u>	+-V//		
C-C,			1		<u> </u>	
5560			<del> </del>			
5550		<del></del>	+ 0	=======================================		
1		_	+	+	† - <b>-</b> ·	+ <del>-</del> +

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DRILLING PROGNOSIS

1.Operator:

PetroSun Exploration & Production, Inc.

6836 East Ludlow

Scottsdale, AZ 85254

Ph # 602-998-9771 Cell # 602-710-2046

2.Well Name:

New Mexico & Arizona Land Co #1

3.Location:

1445' FNL & 1050' FEL of Section 15,T14N,

R25E of Apache County, Arizona

4.Permit Number:

5.Elevations:

Ground: 5552 Derrick Floor: Kelly Bushing:

6.Total Depth &

Objective:

3827

Supai, Naco, Martin & McCracken

7.Drilling Contractor: United Drilling, Inc.

Angel Salazar 505-623-7730

8.Casing Program:

Surface: 602' 8 5/8 32# ,362 sacks std cement

w/ 2% gel,5% KCL (Halliburton)

9.Deviation Surveys:

Comply with Arizona Rules & Regulations

10.Mud Program:

Don Durham 800-355-3205 saturated salt system

11.Samples:

Available samples to Operator and Arizona

Geological Survey

12.Coring:

None

13.Drill Stem Test:

Baker Oil Tools 505-325-0216

As warranted by shows

14.Logs:

Schlumberger 505-325-5006

laterlog,density,gamma ray

15. Formation Tops:

202 5350 Top Coconino 602 4950 Top Supai 3750 1802 Top Fort Apache 2500 3052 Top Penn Naco 1950 Top Devonian 3602 1750 Top Granite Wash 3802 3827 1725 TD

16.Engineer:

John Somers

303-494-4529

17.Mud Logger:

Mountain States Well Logging Jimmie Bales

505-632-0362

0

PETROSUN EXPLORATION & PRODUCTION, INC.

6836 E. LUDLOW PH. 602-998-9771
SCOTTSDALE, AZ 85254

PAY TO THE ORDER OF Avizon Oil & Goe Comm \$25.00

The order of Avizon No.

BANKEONE.
Bank Cree Arizone No.
Scotsciele Size Offor (189)
Scotsciele Arizons
MESIO Formit Fee NZ 15-1

MESIO Formit Fee NZ 15-1

and and and and a

ERECTA!

	RECEII	PT Date m Petro S	un E	,-5 -xpl. 4	19 <u>96</u> Phod. 1	_ No.	3088
	Address 4	836 E. L	udlow	, Scottso	ale AZ	8525	-4
	twenty	five and	tion 7	- Par	D	ollars \$.	25.00
	FOR LINES					<del>7</del>	
<b>[</b> ]	ACCOUNT	HOW F	AID	check.	<del>#</del> /////		
]]	AMT. OF ACCOUNT	CASH		1	0 //	<del></del>	
	AMT. PAID	CHECK	25100	1)	Vhil	60	
	BALANCE DUE	MONEY ORDER		By	y y/no	<i>(</i> )	
8K806 %	diform						

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### State of Arizona

### Arizona Geological Survey 416 W. Congress, Suite 100

Tucson, Arizona 85701 (520) 770-3500



Larry D. Fellows

May 11, 2000

Mark S. McKibbin **Surety Claims Analyst CNA Surety CNA Plaza** Chicago IL 60685-0001

: Continental Casualty Company

Surety Principal :

PetroSun Exploration

Bond No. :

141514412

Obligee

: State of Arizona

Claim No.: 96119141

Matter:

Re:

Plug and Abandon PetroSun #15-1 hole

Dear Mr. McKibbin:

I inspected the wellsite in April. All pits have been filled and leveled and the well monument is in place.

Liability under the referenced bond is now terminated.

Sincerely,

Steven L. Rauzi

Oil and Gas Administrator

Stewn (. Rais

c Larry D. Fellows

CNA Plaza Chicago IL 60685-0001

January 10, 1999

Arizona Geological Survey 416 West Congress, Suite 100 Tucson, AZ 85701 Attn.: Steven Rauzi

RE:

Surety

Continental Casualty Company

Principal

PetroSun Exploration

Bond No.

141514412 State of Arizona

Obligee Claim No.

96119141

Matter:

Plugging and Filling of Well #15-1

Dear Mr. Rauzi:

It is my understanding that Mr. Willis has successfully completed the capping and filling of oil well number 15-1. I have paid Mr. Willis \$10,000 to complete this job. Please let me know if any further procedural work needs to be done to close this matter. I have used the full amount of this bond, thus I seek to have the bond's liability terminated at this time. Please call me to discuss this matter.

If there are any questions, please contact the undersigned. Thank you for your cooperation and guidance on this matter.

Thank you,

Mark S. McKibbin

Authorized Representative

Enc.

CEOTOC:

Mark S. McKibbin

Surety Claims Analyst Telephone 312-822-5722 Facsimile 312-755-7276

COLUMN .

(E)22.22.23

2000 12:55

5205362091

MC

PAGE 02

### Statement

DATE 12/31/99

High Desert Testing Inc. P.O.Box 720 Snowflake, AZ 85937 520-536-2091

TO:
CNA
Mark McKibben
Chicago, II.

				AMOUNT DUE	AMOUNT ENC.
DATE		TRANSACTION	· .	\$5,000.00 AMOUNT	BALANCE
10/31/99 11/15/99 11/17/99	Relance forward INV #109-P311 PMT #42294932 ~ #3	Il-initial deposit-cap wel	1	10,000.00 -5,000.00	0.00 10,000.00 5,000.00
					·
•					
·		31-80 DAYS PAST	ARIZONA ARIZONA SURVEY SURVEY		
		A CONTRACTOR OF THE PARTY OF TH	ARTHUR BY JOSEPH		
CURRENT	1-30 DAYS PAST DUE	31-80 DAYS PAST DUE	61-90 DAYS PAST DUE	OVER 90 DAYS PAST DUE	AMOUNT DUE
0.00	0.00	5,000.00	0.00	0.00	\$5,000.00

1-10-2000 1-10-2000 Marc esercen

2000 12:55

5205362091

MC

PAGE 03

### High Desert Testing Inc.

P.O.Box 720 Snowflake, AZ 85937 520-536-2091

BILL TO		:	*-*
CNA			
Mark McKibben			
Chicago, IL			
• ,			

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ш	nve	711	
81		<i>3</i> 8 9	36

DATE	INVOICE#
11/15/99	109-P311

DESCRIPTION	AMOUNT
Labor and material to pull 550 ft. of 2" upset tubing from well and remove all top valves and piping from well site. Plug well with bentonite pellets. Seal top 20 ft. of well with cement grout and install 4' X 4" steel marker pipe. Labor to take out Cat dozer to job site and fill in old drilling pit, clear and clean up land site	10,000.001
Sales Tax	0.00



Thank you for the opportunity to serve you.

3

**Total** 

\$10,000.00

amount fack

STATE: ARIZONA **COUNTY: APACHE** API: 02-001-20306 FIELD: WILDCAT

**WELL CLASS: WF** PETROSUN EXPL&PROD

CHECKE !

15-14N-25E SE NE 1445 FNL 1050 FEL SEC STATUS: D&A-G

7/N894

15-1 NEW MEXICO & ARIZONA LAND CO

SPUD: 06/17/1996 COMP: 01/02/1998 ELEV: 5552 GR
TD: 3648 (07/04/1996) FM/TD: GRANITE DTD: 3648 BHT: 115F
CONTR: UNITED DRILLING CORPORATION RIG # 3 (VERTICAL)
PROJ DEPTH/FM: 3800 PRE CAMBRIAN PERMIT # 894 LEASE TYPE: FEE TARGET OBJ: OIL

3648 DTD COMP:01/02/1998 D&A-G;

LOCATION DATA: 1 1/2 MI SW HUNT, NM 30 MI S-SW PINTA DOME FLD(COCONINO)ABND; PRIMARY TARGET: DEVONIAN; CASING: 8 5/8 IN @ 609 W/365 SACK,5 1/2 IN @ 1368 W/145 SACK;
LOG TYPES: DLL 608-3644, MSFL 608-3644, CNDL 608-3644, CBND 608-3644, FD 608-3644, GR
608-3644, CBND 0-1281, CCL 0-1281, BHCS 608-3644;
LOG TOPS: COCONINO 200, SUPAI 530, NACO 3040, MOLAS 3450, DEVONIAN 3480, GRANITE

© 2000 Petroleum Information/Dwights LLC d/b/a IHS Energy Group

CARD# 0011-AZ

PETROSUN EXPL&PROD

15-1 NEW MEXICO & **ARIZONA LAND CO** 

API: 02-001-20306, 15-14N-25E

(CONTINUED)

3540;
DST # 001(SUPAI) 1034-1062 NO OP 15 MIN SI 30 MIN OP 30 MIN SI 60 MIN; PIPE REC: 200 FT
MW, 305 FT W SPL REC: 2500 CC W; SPL CHAMBER: 20; IFP 51 FFP 167 IFP 178 FFP 308; ISIP
388 FSIP 391; IHP 547 FHP 547 BHT 80 F

DRLG COMMENTS: OPR REPORTS ROTARY BUSHING BLEW OUT OF HOLE WITH, MUD &
METHANE IN SUPAI © 1202-1232, OPERATOR MAY, DRILL AN OFFSET IN FUTURE.;

DRLG SHOWS: 1034-1062 SUPAI GAS, 1034-1062 SUPAI OIL;
PROD TEST(S): # 001 PERF (SUPAI) 1206-1226 W/ 4 PF; ACID (1206-1226) W/ 2000 GAL ACID
15% HCLREC 5 MCFGPD, 8 BW IN 30 MIN © 350 PSI AND DIED (86.6% NITROGEN, 12.1% CO2,
1.1% METHANE)

OPER ADD: 6836 E LUDLOW DR, SCOTTSDALE, AZ 85254-3421, ;

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03/03/2000

CARD# 0011-AZ

COMPLETIONS

**RIDGEWAY ARIZONA OIL** 13-36-29 RIDGEWAY STATE

API 02-001-20313

1356 FNL 1726 FEL SEC

ARIZONA / NEVADA-APACHE COUNTY CONTINUED 36-13N-29E WILDCAT; 2200 FORT APACHE PERMIT: 901 (PMT APP'D 04/08/1997) (FR:04/10/1997 FM Update) LEASE TYPE:STATE TARGET OBJ: GAS: OPER

ADD: P O BOX 1110, ST. JOHNS, AZ 85936, (520)337-3230 EL: 6180 KB 6167 GR LOCATION DATA: 4 MI NE UNNAMED FLD(FORT APACHE)CO2 DISC 15-12N-29E 7 MI E ST JOHNS, AZ; VERTICAL;

CONTR: AZTEC WELL SERVICING, SPUD:05/14/1997 CSG: 8 5/8 IN @ 1262 W/774 SACK; LOG TYPES: MICL 1262-2400, POR 1262-2400, LITH 1262-2400, AISF 1262-2400; LOG TOPS: GLORIETA /SD/ 558, SUPAI 772, FORT APACHE 1500, PRE CAMBRIAN 2420; 2452 TD, (PRE CAMBRIAN) (TD REACHED:05/20/1997) 2452 DTD COMP:05/20/1997 D&A; , NO DST RUN

P/N 894

PETROSUN EXPLORATION & PRODUCTION ----

15-14N-25E -- SE NE

15-1 NEW MEXICO & ARIZONA LAND CO1445 FNL 1050 FEL SEC

WILDCAT; 3800 PRE CAMBRIAN PERMIT: 894 (FR:06/10/1996 FM KMS) LEASE TYPE:FEE TARGET OBJ: OIL; OPER ADD: 6836 E LUDLOW DR, SCOTTSDALE, AZ 85254-3421, EL: 5552 GR LOCATION DATA: 1 1/2 MI SW HUNT, NM 30 MI S-SW PINTA DOME FLD(COCONINO)ABND, PRIMARY TARGET: DEVONIAN; VERTICAL;

CONTR: UNITED DRILLING CORPORATION, RIG # 3; SPUD:06/17/1996 CSG: 8 5/8 IN @ 609 W/365 SACK,5 1/2 IN @ 1368 W/145 SACK; DRLG COMMENTS: OPR REPORTS ROTARY BUSHING BLEW OUT OF HOLE WITH, MUD & METHANE IN SUPAI © 1202-1232, OPERATOR MAY, DRILL AN OFFSET IN FUTURE.; SHOWS: 1034-1062 SUPAI GAS, 1034-1062 SUPAI OIL; LOG TYPES: DLL 608-3644, MSFL 608-3644, CNDL 608-3644, CBND 6-1281, CCL 0-1281, BHCS 608-3644; LOG TOPS: COCONINO 200, SUPAI 530, NACO 3040, MOLAS 3450, DEVONIAN 3480, GRANITE 3540; DST # 001(SUPAI) 1034-1062 NO OP 15 MIN SI 30 MIN OP 30 MIN SI 60 MIN; PIPE REC: 200 FT MW, 305 FT W SPL REC: 2500 CC W; SPL CHAMBER :20 ; IFP 51 FFP 167 IFP 178 FFP 308; ISIP 388 FSIP 391; IHP 547 FHP 547 BHT 80 F 3648 TD, (GRANITE) (TD REACHED:07/04/1996) BHT: 115F PROD TEST(S): # 001 PERF (SUPAI) 1206-1226 W/ 4 PF; ACID (1206-1226) W/ 2000 GAL ACID 15% HCLREC 5 MCFGPD. 8 BW IN 30 MIN @ 350 PSI AND

RIDGEWAY ARIZONA OIL

15-28-29 RIDGEWAY API 02-001-20316

28-15N-29E 818 FNL 1423 FWL SEC

DIED (86.6% NITROGEN, 12.1% CO2, 1.1% METHANE) 3648 DTD COMP:01/02/1998 D&A-G;

WILDCAT; 2200 FORT APACHE PERMIT: 904 (FR:05/27/1997 FM KMS) LEASE TYPE:STATE TARGET OBJ: GAS; OPER ADD: PO BOX 1110, ST. JOHNS, AZ 85936, (520)337-3230 EL: 5708 KB 5695 GR LOCATION DATA: 12 MI N-NE ST JOHNS, AZ 16 MI N UNNAMED FLD(FORT APACHE)CO2 DISC;

CONTR: AZTEC WELL SERVICING, RIG # 124; SPUD:05/27/1997 CSG: 8 5/8 IN @ 1049 W/548 SACK; SPL TOPS: FORT APACHE 1463; 2284 TD, (GRANITE) (TD REACHED:05/31/1997) 2264 DTD COMP:06/01/1997 D&A; , NO DST RUN

THOMPSON ENGINEERING & PRODUCTION CORP 11 NAVAJO TRACT 138 IC 020017000597

**ABANDONED LOCATION:** 

2-40N-28E NW SW 2520 FSL 1200 FWL SEC IC 020017000597

DRY MESA: 5500 BARKER CREEK (PMT APP'D 11/05/1997) (FR:11/05/1997 FM KMS); OPER ADD: 7415 EAST MAIN, FARMINGTON, NM 87402, (505)327-4892 LOCATION DATA: 6 MI SW TEEC NOS POS, AZ W/IN DRY MESA FLD(BARKER CREEK);

THOMPSON ENGINEERING & PRODUCTION CORP

7 NAVAJO TRACT 138 IC 020017000197

ABANDONED LOCATION;

2-40N-28E **NW SW** 

2285 FSL 1245 FWL SEC IC 020017000197

DRY MESA; 5700 LEADVILLE (PMT APP'D 11/05/1997) (FR:11/05/1997 FM KMS); OPER ADD: 7415 EAST MAIN, FARMINGTON, NM 87402, (505)327-4892 LOCATION DATA: 6 MI SW TEEC NOS POS, AZ W/IN DRY

**AB-LOC** 

WF

D&A

D&A-G

WF

D&A

THOMPSON ENGINEERING & PRODUCTION CORP **8 NAVAJO TRACT 138** 

IC 020017000297 **ABANDONED LOCATION;** 

6.2

11-40N-28E NE NE 1000 FNL 800 FEL SEC IC 020017000297

DRY MESA; 5500 BARKER CREEK (PMT APP'D 11/05/1997) (FR:11/05/1997 FM KMS); OPER ADD: 7415 EAST MAIN, FARMINGTON, NM 87402. **AB-LOC** (505)327-4892 LOCATION DATA: 7 MI SW TEEC NOS POS, AZ W/IN DRY MESA FLD(BARKER CREEK);

THOMPSON ENGINEERING & **PRODUCTION CORP** 9 NAVAJO TRACT 138 IC 020017000397 **ABANDONED LOCATION:** 

12-40N-28E SW NE 1560 FNL 1965 FEL SEC IC 020017000397

DRY MESA; 5500 BARKER CREEK (PMT APP'D 11/05/1997) (FR:11/05/1997 FM KMS); OPER ADD: 7415 EAST MAIN, FARMINGTON, NM 87402, **AB-LOC** (505)327-4892 LOCATION DATA: 6 1/2 MI SW TEEC NOS POS, AZ W/IN DRY MESA FLD(BARKER CREEK);

**COCHISE COUNTY** 

**ARZON CORPORATION** 1 ARZON STATE API 02-003-20009

27-13S-30E WW WW 660 FNL 660 FWL SEC WILDCAT; 9900 PENNSYLVANIAN (FR:06/26/1995 FM KMS) LEASE TYPE:STATE; OPER ADD: BOX 10186, PHOENIX, AZ EL: 3613 KB 3600 GR LOCATION DATA: 2 MI W OF SAN SIMON, AZ VERTICAL;

WF J&A

10-29-99 Kelly Willis calls. Start seal @ 1368' PBTD

- 1) 390 bass bentonite chips
- (2) Annular space a 1200 gal mod gel (30% excess)
  a 812 gal between 5½-85" annulus
- 3) Cont surf plus top 20 feet
- (4) labor, freight, hore, leveling
- 6) = Up to \$ 10,000

will visit well site this weekend + call me Monday. Will call me @ home of something comes up. Fax figures to me + then contact CNA

I call & leave use with McKibbon #s look good



### State of Arizona Arizona Geological Survey

416 W. Congress, Suite 100 Tucson, Arizona 85701 (520) 770-3500



Larry D. Fellows Director and State Geologist

October 12, 1999

Fax to:

Mr. Kelly Willis @ 536-2091

McCray Drilling Company

4 pages total

From:

Steve Rauzi, Oil & Gas Administrator

Dear Mr. Willis:

I have attached the wellbore schematic for the PetroSun #15-1 well that we talked about this morning. The 8 5/8" casing is cemented back to the surface. A cement bond log shows that the top of cement behind the 5 1/2" casing is at 1070 ft.

I have also attached an application to plug and abandon and a map showing how to get to the well site.

Please advise on (1) plugging the well from the bottom of the 5 1/2" casing to the surface, (2) filling the open annulus behind the 5 1/2" casing, and (3) restoring the well site. I would prefer cement across the perforations but clay would work because of the lack of pressure. The surface landowner would like to convert the well to a water well if that is feasible.

My phone number is 520-770-3500.

Thank you. Steve

.



State of Arizona

### Arizona Geological Survey 416 W. Congress, Suite 100

416 W. Congress, Suite 100 Tucson, Arizona 85701 (520) 770-3500



Larry D. Fellows
Director and State Geologic

October 12, 1999

Mark S. McKibbin Surety Claims Analyst CNA Surety CNA Plaza Chicago IL 60685-0001

via Fax 312-755-7276

Re: PetroSun #15-1 well, Claim No. 96119141

Dear Mr. McKibbin:

I talked to Mr. Kelly Willis of McCray Drilling Company in Snowflake this morning. I am going to fax him some information on the referenced well.

It looks like Mr. Willis may have more interest in plugging the well and restoring the wellsite than the previous drillers I have talked to.

With luck, we may be getting close to finally getting the well plugged.

Sincerely,

Steven L, Rauzi

Oil and Gas Administrator

Steve C. Rango

c Larry D. Fellows



# Arizona Geological Survey

416 W. Congress, Suite 100 Tucson, Arizona 85701 (520) 770-3500



Larry D. Fellows Director and State Geologist

September 29, 1999

Mark S. McKibbin Surety Claims Analyst CNA Surety CNA Plaza Chicago IL 60685-0001

via Fax 312-755-7276

Re: PetroSun #15-1 well, Claim No. 96119141

Dear Mr. McKibbin:

I am writing to keep you advised of our effort to have the referenced well plugged and abandoned. It is taking more time than I had hoped to get the well plugged.

It looks like Mr. Jeff McCray of Copperstate Drilling Company will plug the well and restore the wellsite. I spoke with Jeff this morning. He plans to go to the wellsite this week to take some measurements in order to provide an estimate of the cost.

With luck, we may be getting close to finally getting the well plugged.

Sincerely,

Steven L., Rauzi Oil and Gas Administrator

5 Leven L. Raing

c Larry D. Fellows

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### State of Arizona

#### Arizona Geological Survey 416 W. Congress, Suite 100

416 W. Congress, Suite 100 Tucson, Arizona 85701 (520) 770-3500



Larry D. Fellows Director and State Geologie

May 19, 1999

Fax to:

Jeff McCray, @ 536-2938

Copperstate Drilling Co

(2 pages total)

From:

Steve Rauzi, Oil & Gas Administrator

Dear Jeff:

I have attached the wellbore schematic for the Petro Sun #15-1 well that we talked about this morning. The 8 5/8" casing is cemented back to the surface. Estimated top of cement behind the 5  $\frac{1}{2}$ " casing is 1070 ft.

Please advise on plugging the well back to the surface casing and possibly completing it as a water well in the Coconino Sandstone.

I would prefer cement across the perforations from 1206 – 1226 ft and cement filling the annulus to the surface.

My office hours are 8 to 4 and my phone is (520) 770-3500.

Thank you,

Steve

O

and the second s

4-26-99

Call Ms. Cadenhead to be-iferate our interest in plussing 15-1 NMAL.

Ed is involved of big jub and hasn't yet simm additional thought to the 15-1. She will talk to him to see if he will get est. (or has no interest.).

Call Matte McKildson. Reiterate to matte that Ed is my 1st Choice. Advin that if Ed willing to do job them arrange payment of CNA. = Ole Somes good.

5-10-99 Call Jeff M'Chay@ Catentre Copperstate dry in Smortlake.

fax him diagram of hole@ 536-2938
5-11-99 Call & follow of Jeff His his is in Cl. The Han

5-11-98 Call & follop al Jeff. His tig is in St. Johns. Han him include litt world. Fax him a location map.

6-3-98 Mark M'Gibbon, CNA Santy called.
He received phone call forms Gordon. He want to Florida to
talk up principles. Some soft of swap of something up Petho Sun.
Anyway I advise Mark Jeff M'Chy is second choice to
get the world done.

7-2-59 Call Jeff M'Cray. He's still interested but busy up several domestic www in St. Johns area. Also YZK people on his back. would be able to get to it for a 1-12 months.

= okay. I'll get back. Need to work up costs.

Call & advise Mark M'Kibhon. / Margant Marie.

9-15-95 Jeff McCray called will check out wellsiter set back to me early rext week.

FAX TO: MARC STEADMAN - EYI



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State of Arizona

### Arizona Geological Survey

416 W. Congress, Suite 100 Tucson, Arizona 85701 (520) 770-3500



Larry D. Fellows
Director and State Geologist

Jane Dee Hull Governor

April 5, 1999

Mark S. Mckibbin Surety Claims Analyst CNA Surety CNA Plaza Chicago IL 60685-0001

Re: PetroSun #15-1 well, Claim No. 96119141

Dear Mr. McKibbin:

I came up with the following list of local drillers that may have the capability to plug the referenced well:

- 1. Kelly Willis, McCray Well Drilling Co., Snowflake, (520) 536-4414
- 2. Jeff McCray, Copperstate Drilling Co., Snowflake, (520) 536-4447
- 3. Phillip McCray, Navapache Drilling Co., Lakeside, (520) 368-6606
- 4. Terrance Taylor, A to Z Drilling Co., Taylor, (520) 536-7319
- 5. Ed Cadenhead Drilling, Inc., Show Low, (520) 537-7958
- 6. Tom Lord, Vernon Equipment & Supply, Vernon, (520) 537-1557
- 7. Lawson Nielsen, Nielsen Well Drilling, St. Johns, (520) 337-4453

I talked to Ed Cadenhead by telephone on March 12 after I faxed the attached information to him on March 11. He has the equipment capable to plug the well. He was going to calculate material volumes and develop a cost estimate. I suggest that you contact him directly to arrange payment and a schedule convenient to Mr. Cadenhead to plug the well and restore the wellsite.

I will need sufficient advance notice to witness the plugging operation and will need to inspect the final restoration of the site before the Commission may terminate liability under the bond. It would be appropriate to advise the surface owner, Mrs. Margaret Marie, at (520) 537-3620, of the timing worked out to plug the well and restore the wellsite.

Please give me a call if we may be of further assistance. Thank You.

Sincerely,

Steven L. Rauzi

Oil & Gas Program Administrator

Enclosures

Larry D. Fellows, Director and State Geologist
 PetroSun E & P, Naples FL

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9000000

3-19-99

Gotolon Le Blacce Jr.

phone call from

Crown Petro Sun net take care of 1-15 wel

when remped tried to argure propertis.

permelly signed so well need to

fellow with CNA. Mark our Kithen.

1:4 of mum. campaires to work over (plus well)

arl barding on hold. i. will, need to fix up publican

602-607-0600 = Gordon,

Retio Sun / Chones wonted to born \$30,000 Spencer Karrin 7000 in Oklahum

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9 SERVERING

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Quicken.com - Chart

http://www.quicken.com/investments/charts...ia=off&sp500=off&nasdaq=off&othersymbols=

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.

3/2/4 Ed Cadenhead

Problem = too much steel + grout to effectively per Coconino as war.

His opinion waste of money.

Cost less to drill 300' was then attempt completion

(1) cut 5½" + perf the 85"

5" puc csed well to 300' in 6hts.

Eldie Thomason, Jet West William

No problem of 5½", 85/9" 12 openhob up to 16" jet charge.

#700 service charge, \$35/hole, \$2.10/mi mileage hound thip.

\$88 per day per diem if overnight necessary, portable mast extra.

PT @ 450mi (\$2.10mi) = \$945

(all Margaret Marie a advise of probable no who conv.

a

Ø,



Jane Dee Hull Governor

State of Arizona

## Arizona Geological Survey

416 W. Congress, Suite 100 Tucson, Arizona 85701 (520) 770-3500



Larry D. Fellows Director and State Geologist

March 11, 1999

Fax to:

Ed Cradenhead at 520-537-7958

(2 pages total)

From:

Steve Rauzi, Arizona Geological Survey

Dear Mr. Cradenhead,

Please advise on plugging back the attached PetroSun 15-1 wellbore and completing it as a water well in the Coconino at about 530 feet.

I would prefer cement across the perforations between 1206-1226 feet and cement filling the annular space to the surface.

I have more well data if needed.

Thank you.

Steve Steve

P.S. My office hours are 7 to 4 and my phone is 520-770-3500.

O

CHARLES !

PetroSun 15-1 NMAL se ne 15-14N-25E est 3/4" annulus 124 hole Coconius 85"24# set@ 609 4/365sks 838 ft (838 gal) (112 cf) Class B (salfade resistant) (955x5) 0% bent 1.18 cfsx 2% bant. 1.36 cfsx TOC ~ 1070' } Perf 1206-1226' 5½" 15.5# set@ 1368' W/145 sks .9997 gpf .1336 cfpf -TO 3648-

est annulus@ . 4037 gpf
. 0540 cfpf

3-8-99 Call Mike Ball @ ADUR

Licensed Drlfs in Concho aka:

- @ Kelly Willis, Mc (ray Well Drlg (o, Snowflake (520) 536-4414
- @ Jeff Mc (tay, Copperstate Dtg Co, Snowthke (520) 536-4447
- @ Navapache DHz 6., Phillip Mc Cray, Lakside 620) 368-6606
- @ Terrance Taylor, Ato Z DHS, Taylor (520) 536-7319
- (5) Paul Wyatt, H+E Beenian, Shaw Low (520) 537-103/ 25uip.
- € Ed Cradenhead DHz Inc., ShowLow (520) 577-7958
  - (7) Tom Lord, Vernon Equip & Supply, Vernon (520) 537-1557
  - (8) Lawson Nielsen, Nielsen Well DHg, St. Johns (520) 337-4453

Need to handle Tremy pipe + shout pump to set court down to ~ 1400', fill annulus back to surface. [] camea |

Fax to Matc Stendman 542-7798

CNA Plaza Chicago IL 60685-0001

Mark S. McKibbin

Surety Claims Analyst

Telephone 312-822-5722 Facsimile 312-755-7276

March 4, 1999

State of Arizona Arizona Geological Survey 416 W. Congress, Suite 100 Tucson, Arizona 85701

Attn.: Steven L. Rauzi - Oil & Gas Program Administrator

Re: Surety

American Casualty Co. Of Reading, PA

Principal

Petrosun Exploration

Bond No.

141514412

Obligee

State of Arizona

Claim No.

96119141

·Matter:

Claim against bond

Dear Mr. Rauzi:

Please be advised that American Casualty Co. Of Reading, PA ("Surety") is in receipt of your letter and attachments whereby the State of Arizona is making a claim against the above referenced bond. We have currently undertaken an investigation into this matter and have requested the Principal's assistance in this matter.

This letter is written for investigative purposes only. Nothing in this correspondence is intended to be construed as admission. Neither the acknowledgment of this claim nor our continued investigation of this matter should be construed as a waiver of any rights or defenses that may be available to Surety or its Principal. All rights and defenses arising in law or equity are reserved.

If there are any questions, please contact the undersigned.

Sincerely,

Mark S. McKibbin

Authorized Representative

MAR 1999

MAR 1999

ARIZONA

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SURVENIES .

Call Dave Doolittle e CNA e 913-661-7752

The material 2 sent 2/3/99 was received + forwarded to

Claims dept. in Chicago. All further dealings will be
with regal people in claims dept. He will check status
and give me a return call.

Dave returns call + refer me to Mark McKibbin

312-822-5722

Call Mark and their claim No. is # 9611 9141

He's been in touch of Petrosun. McCase to call back tomotron.

Letter was sent to me this morning

About how much to plus well? lest- n 2500-5000 if local.

Advise him of Margarete desire to get with well + help.

I will check on local with well drillers.

Mark wondered if they could just possibly forward \$10,000 check?

Call + lear miss of Mike Ball (417-2470) about www drlrs

Margaret Marie Hus call.

Well drit in Superflake didn't think

plussing well back to 600' would

be much of a problem

= Mt. Mc Cray Well Drilling Co.

in Snowflake.



State of Arizona Arizona Geological Survey

416 W. Congress, Suite 100 Tucson, Arizona 85701 (520) 770-3500



Larry D. Fellows Director and State Geologist

Jane Dee Hull Governor

February 3, 1999

David B. Doolittle Underwriting Manager CNA Surety Co. P.O. Box 25901 Overland Park, KS 66225-5901

American Casualty Company of Reading, Pennsylvania Bond #141514412 PetroSun Exploration & Production #15-1 NMAL, State Permit #894 Re:

Please be advised that the Oil and Gas Conservation Commission found the referenced Dear Mr. Doolittle: well in violation of State Law and Rules in its regular meeting of January 15, 1999. As a result, the Commission now provides demand under the bond that American Casualty Company of Reading, Pennsylvania, remedy the violations pursuant to the terms of the bond. We look forward to working with your office to remedy this situation.

I have attached several items for your information, including:

- Copy of the Commission's motion in its January 15, 1999, meeting finding the well 1.
- Copy of Rules R12-7-126, R12-7-127, and R12-7-129 about plugging; in violation;
- Application to Plug and Abandon, Plugging Record, and Water Well Acceptance 2. 3.
- Completion Report and correspondence dated 4/18/97, 6/26/97, 7/5/97, 7/7/97, Forms; and 8/14/97, 8/18/97, 8/19/97, 12/11/98, 12/14/98, and 12/22/98.

Please feel free to call and discuss any aspect about the plugging or our requirem Thank You.

Sincerely,

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Stearl Rais

Steven L. Rauzi Oil & Gas Program Administrator

Enclosures

Larry D. Fellows, Director and State Geologist PetroSun E & P, Naples FL

Hampton Bussey, Abkansas State Oil & Gas 870-862-4965

APP from Tiset E+P Had address in Devoer 4 now Scottsdate AZ. 15 vindle company? Tiget has 968 orphaned wells in Atlanusas 2nd recovery but oil too heary. Stripped all equipment. State Uns \$ 235,000 to PAA wells burd \$3,000 forelf

1 sive Hampton the facts.

- PetroSun President Gordan LeBlanc
- Going to bonding Co. to get Pethosum well plugged.
- Gordan besigned PetroSur + reply on Tiget E+P hetterhead.
- Tiger EXP never drilled or operated in AZ.
- Thenfore no comment as + viability of Tiger ETP.

Description of the second

| <u>2007,500,000,000</u>

Phone # 941 - 403 - 1645 Fax # 941 - 403 - 1640

12-21-98 Jim McCabe calls.

discuss my letter to LeBlanc - Chonus bought out PetroSun.

I advise of out pequinements including on that. etc.

12-72-98 I call Margaret and old to give Jim M'Cabe her phone #

1-11-99 Margaret Marie calls - they wish to sell property.

what remedy to clear up wellsite?

Any protection to surface owners in situations like this.

Idvin her to contact MS direct + explain her situation

1-29-95 (all Ken Higham, CNA lus. Phx @ 602-212-3235)
tall to Mille Lalande @ * 3233
Ken returns call Bond 141514412 out of Kansas.
Contact David B. Doolittle, Underwriting Mgr
CNA Surety (o. @ 913-661-7752
P.O. Box 25901
Overland Park, KS 66225-5901
Generally in a claim Situation Hey'll want to see everything.
Call & hear msg w/ mts, vf, js.
Margaret calls & inquins. I advise of contact of CNA.

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Jane Dee Hull Governor

# Arizona Geological Survey

416 W. Congress, Suite 100 Tucson, Arizona 85701 (520) 770-3500



Larry D. Fellows Director and State Geologist

December 22, 1998

9 pages via Fax 941-403-1640

Mr. Jim McCabe PetroSun Exploration & Production P. O. Box 2289 Naples, FL 34106

Re: PetroSun E & P 15-1 NMAL, Permit 894

Dear Mr. McCabe:

Thank you for your phone call yesterday. The material we talked about is enclosed. The phone number of the surface owner, Mrs. Margaret Marie, is (520) 537-3620. You may wish to contact her.

I would recommend that PetroSun initiate offical paperwork to further test or plug the referenced well before the Oil and Gas Commission meets on January 15, 1999. The Commission will be reviewing the compliance status of your well and it is important that PetroSun should excercise diligent efforts to bring the well into compliance by that time.

#### Enclosures include:

- 1. Rules R12-7-126, R12-7-127, R12-7-129, and R12-7-194 about plugging requirements and submission of organization report.
- 2. An Organization Report, Application to Plug and Abandon, Plugging Record, Water Well Acceptance Form, and Sundry Notice for your use.

Let me know if I may be of further assistance.

Sincerely,

Steven ( Karing

Steven L. Rauzi Oil & Gas Program Administrator

**Enclosures** 

c Larry D. Fellows, Director and State Geologist

## Tiger E&P

December 14, 1998

Mr. Steven L. Rauzi, Oil & Gas Administrator Arizona Geological Survey 416 W. Congress, Suite 100 Tucson, AZ 85701

Re: PetroSun E & P 15-1 NMAL, Permit 894

Dear Mr. Rauzi,

I am in receipt of your letter dated December 11, 1998 regarding the plugging of the above referenced well. Please be advised that I resigned from PetroSun / Cronus Corporation on June 11, 1998. Therefore, I have forwarded your letter to Mr. Jim McCabe, President of PetroSun, at their new corporate headquarters in Naples, Florida.

If I can be of any further assistance, I may be reached at 602-607-0600.



cc: Jim McCabe and Kevin Sherlock P.O.Box 2289 Naples, FL 34106 941-403-1005



**PetroSun** 

June 6,1996

Desmond & Margaret R. Marie Esk Dale Croix Au Lion St. Peter, Jersey Channel Island, G.B.

Subject: Use of surface rights, Lot 439, Parcel 204-51-439, Section 15-Township 14N-Range 25 East, Apache County, AZ

Desmond & Margaret R. Marie,

PetroSun Exploration & Production, Inc. shall perform the following in return for the use of the surface rights on the above named lot and parcel.

- Surface damage payment on the drillsite in the amount of one thousand dollars (\$1,000.00)
- 2. Full restoration of surface area damaged by PetroSun.
- 3. In the event the well is non-productive for oil & gas, Petro Sun will plug the well at the base of the surface casing (602') and at the surface. This will allow the surface owner to complete the well as a potential water well in the future.

Gordon LeBlanc, Jr.

Gordon DeBlanc, Jr.
President

DEC 1888

ORIGINAL DEC 1888

ORIGINAL DEC 1888

ORIGINAL DEC 1888

ORIGINAL DEC 1888

Accepted and understood this: 3rd day of July ,1996

Kevn Mari

Desmond & Margaret R. Marie or their authorized agent

Margaret - Desmond Marie 6866 Deuces Wild Show Low, Origania 85901

Tel 1520-537-3620

14th December 1998

Steve Rayge H16 West Congress, No 100 Tuson 95701

CONTRIBUTION OF THE PROPERTY O

Following information regarding our land site 439 Woodridge Ranch II section 15 Township 14N Range 25E. apache County.

Between June and July 2rd 1996 we received information that a Company was drilling for oil on our land, at the time we lived in Jersey, Channel Islands U.K.

we received no prior notice of this event being concerned we ask our son Keinto Fly to the States to investigate. We would like the agreement made with Gordon Le Blane Jr. to be honoured.

1, Land to be reinstated

2, large number of old trees were uprooted. they were to be replaced by a forestry package.

3. a large pit was dug for their trash, we wish it removed not bruried.

H If there was no oil or gas we were

promised a 602 foot well (Water)
5 Various equipment has been left on
site for over two years we would also like

Enclosed a copy of the agreement, which our son Kenin signed in good faith we would appreciate any help you could give in dealing with this very difficult situation.

Many thanks for you help.

arcennes |

Kurid regards.

Margaret - Desmond Marie





Jane Dee Hull Governor

# Arizona Geological Survey

416 W. Congress, Suite 100 Tucson, Arizona 85701 (520) 770-3500



Larry D. Fellows Director and State Geologist

December 11, 1998

Mr. Gordon LeBlanc PetroSun Exploration & Production 8129 North 87th Place Scottsdale, Arizona 85258

Re: PetroSun E & P 15-1 NMAL, Permit 894

Dear Mr. LeBlanc:

It has been over a year since you wrote to advise of your plans to plug the referenced well for conversion to a water well in October 1997. Your Application to Plug and Abandon pursuant to A.A.C. R12-7-127 is due.

We will look to your Surety, American Casualty Company of Reading Pennsylvania, Bond # 141514412, for performance to plug the well and restore the well site if we do not hear from you by the end of this month.

The Oil and Gas Conservation Commission will review the status of your well at its next meeting, which is scheduled for January 15, 1999, at the Capitol Tower in Phoenix.

Sincerely,

Steven L. Rauzi

Oil & Gas Program Administrator

Stevent Paris

#### **Enclosures**

J. Dale Nations, Chairman, Oil and Gas Conservation Commission Larry D. Fellows, Director and State Geologist CNA Surety, 2600 N. Central, Ste. 400, Phoenix Marc T. Steadman, Office of Attorney General 12-3-98

Margaret Marie, Lindon AZ 520-537-3620
6886 Duces Wild, 85901

PetroSun drilled on her Surface acrease.
Gordon interested in purchesing surface
deal in escense antil December
Gordon put up 50,000 shares in sood faith
Shares hour dropped to 3th /sh and haven't heard for Gordon.

NOW = I devastated acre
Wellhew that spews ait, mad pit, etc = not becking.
I advise tales beguin him to comply a testor site.

n

## PETROLEUM INFORMATION/DWIGHTS ROCKY MOUNTAIN REGION REPORT SECTION VI - 01/28/98 PAGE 2

COMPLETIONS

FINAL CLASS: WF = UNSUCCESSFUL NEW FIELD WILDCAT; WFD = NEW FIELD DISCOVERY; WD = UNSUCCESSFUL DEEPER POOL WILDCAT; WDD = DEEPER POOL DISCOVERY; WS = UNSUCCESSFUL SHALLOW POOL WILDCAT; WSD = SHALLOW POOL DISCOVERY; WP = UNSUCCESSFUL NEW POOL WILDCAT; WPD = NEW POOL DISCOVERY; WO = UNSUCCESSFUL WILDCAT OUTPOST; WO = WILDCAT OUTPOST EXTENSION; D = UNSUCCESSFUL DEVELOPMENT WELL; DO = DEVELOPMENT OIL WELL; DO = DEVELOPMENT GAS WELL.

#### **ARIZONA**

#### **APACHE COUNTY**

PETROSUN E&P 15-1 NEW MEXICO & ARIZONA LAND CO 15-14N-25E SE NE 1445 FNL 1050 FEL WILDCAT; PERMIT #894; 3800 PRECAMBRIAN, (FR 06/10/96FM) OPER ADD: 6836 E LUDLOW, SCOTTSDALE, AZ, 85254 PHONE (602) 998-9771; EL: TA-OG 5552 GR: LOCATION DATA: 30 MI S-SW PINTA DOME FLD(COCONINO)ABND 1 1/2 MI SW HUNT, NM; PRIMARY TARGET: DEVONIAN;

FLD(COCONINO)ABND 1 1/2 MI SW HU
TO BE VERTICALLY DRILLED.

API 02-001-20306

CONTR: UNITED DRLG, RIG #3:SPUD: 06/17/96, CSG: 5 1/2 @ 1342: DST # 1 (SUPAI) 1034-1062. OP 15 MIN, SI 30 MIN, OP 30 MIN, SI 1 HR, REC: 200 FT MDYWTR, 305 FT WTR, IFP 51, FFP 167, IFP 178, FFP 308, ISIP 388, FSIP 391, IHP 547; DRLG COMMENTS: OPA REPORTS ROTARY BUSHING BLEW OUT OF HOLE WITH MUD & METHANE IN SUPAI @ 1202-1232, OPERATOR MAY DPILL AN OFFSET IN FUTURE SHOWS: 1034-1062 SUPAI OIL 1034-1062 SUPAI GAS 3648 TD, (UNKNOWN) (TD REACHED: 07/ 04/96); PROD TEST(S): PERF (SUPAI) 1204-1220, SWBD NTGN AMT NOT RPTD. 3648 TD. COMP 1/2/98, TEMP ABND. NO CORES, ONE DST WILL BE REISSUED IF ADDITIONAL DATA BECOMES AVAILABLE

#### **MOHAVE COUNTY**

PREMCO WESTERN 1-10 MOHAVE COUNTY API 02-015-20029 10-41N-11W NE SE 2353 FSL 510 FEL IC 20157000195 WILDCAT; 8500 CAMBRIAN, (FR 09/11/95FM) OPER ADD: BOX 496568.
GARLAND, TX, 74049-6568 PHONE (214) 341-7010; EL: 3090 GR; LOCATION
DATA: 24 MI S-SW VIRGIN FLD(UTAH/INACHOE) 9 MI SE ST GEORGE, UT;
PLAN SPUD NOV-1-1995; TO BE VERTICALLY DRILLED.

WF J&A

WF

D&A

CONTR: LAYNE-WESTERN; SPUD: 11/30/95, CSG: 18 @ 80, 10 3/4 @ 240 W/5 CU YD; DRLG COMMENTS: ORIGINALLY DRILLED TO 1000 FT AND SHUT-IN 1995- 1996, HOLE CAVED-IN, DRLG RESUMED FROM 80 FT 380 TD, (UNKNOWN) (TD REACHED: 10/ 08/97); 380 TD. COMP 12/25/97, J&A. NO CORES OR DSTS. WILL BE REISSUED IF ADDITIONAL DATA BECOMES AVAILABLE

#### <u>NEVADA</u>

#### **EUREKA COUNTY**

PHILLIPS PET 1 ALPHA STRAT API 27-011-05290 27-25N-52E SE NW 2818 FSL 1888 FWL IC 270117000496 WILDCAT; 2500 CONFIDENTIAL. (FR 05/14/96DN) OPER ADD: 6330 W LOOP, BELLAIRE, TX, 77041 PHONE (713) 669-3568; EL: 6888 GR: GEOL: C SCHNEIDER, W EHNI LOCATION DATA: 15 MI S-SE BLACKBURN FLD(INDIAN WELL/CHAINMAN/NEVADA) 44 MI SE BEOWAWE, NV; STRAT TEST; VERTICALLY DRILLED. ABHL: 243 FT N 46 DEG 23 MIN 24 SEC W: 138 N 145 W; 2956 FSL 1743 FWL SW SE NW 27-25N-52E LAST SURVEY PT 2125 MD/2111 TVD, 138N 145W OF SURF;

CONTR: STACO DRLG; SPUD: 07/16/96, CSG: 7 5/8 @ 411 W/162 SX: LOG TYPES: CALP 0-2127, GRL 0-2127, SP 0-2127; LOG TOPS: EUREKA QTZ 380, POGONIP 472, CAMBRIAN 1936; CORE# 1 480-485 REC: 5 FT NO DESCRIPTION AVAILABLE CORE# 2 1030-1032 REC: 2 FT NO DESCRIPTION AVAILABLE CORE# 3 1275-1280 REC: 1.80 FT NO DESCRIPTION AVAILABLE CORE# 4 1890-1692 REC: 2.50 FT NO DESCRIPTION AVAILABLE CORE# 5 2125-2130 REC: 4.90 FT NO DESCRIPTION AVAILABLE: DRLG COMMENTS: STRAT TEST, LOCAL CALLS(LOG): HANSON CREEK 0, ANTELOPE VALLEY LS OG POGONIP PROUG 472, NINEMILE 996, GOODWIN 1106, LOWER POGONIP 1790, UPPER CAMBRIAN DOLO 1936, 2130 TD, (CAMBRIAN) (TD REACHED: 08/ 11/96), RIG REL: 08/13/96; 2130 DTD, 2127 LTD, COMP 8/13/96, D&A, FIVE CORES, NO DSTS

FORELAND CORP 1-7 PINE CREEK API 27-011-05291

1

7-28N-52E NE NE 450 FNL 350 FEL WILDCAT; PERMIT #787; 9000, (FR 08/01/96DN) OPER ADD: 2561 S 1560 W STE 200, WOODS CROSS, UT, 84087 PHONE (801) 298-9866; EL: 5240 KB; GEOL: MR HANSEN LOCATION DATA: 3 MI SW WILLOW CREEK NORTH FLD(INDIAN WELL/ CHAINMAN SH) 19 MI S PALISADE, NV; TO BE VERTICALLY DRILLED.

WF D&A

CONTR: TRUE DRLG, RIG #16:SPUD: 08/05/96 (EST), CSG: 20 @ 60, 8 5/8 @ 910, SET PROD CSG @ 9700; LOG TYPES: BHCS 0-9708, CALP 0-9708, 906-9708, DLL 906-9708, GRL 0-9708, 906-9708, 4600-9672; MINL 4600-9672; SDWL CORES: DEVONIAN; DST # 1 (DEVONIAN), DETAILS NOT RPTD. TESTED THREE DIFFERENT ZONES; DRLG COMMENTS: OIL & GAS SHOWS RPTD IN TERTIARY VOLCANICS AND DEVONIAN CARBONATES. OIL RPTD FROM SDWL CORES TAKEN AT INTRVLS BETWEEN 5400-9600 FT. PROD TEST OPRS ENCOURAGING-WELL P&A-PROSPECT AREA WO ADDITIONAL SEISMIC/GEOL EVAL FOR UPDIP PROSPECT IDENTIFICATION. 9708 TD, (DEVONIAN) (TD REACHED: 09/ 13/96) BHT: 238F; PROD TEST(S): PERF (DEVONIAN) INT NOT RPTD, GAUGE NOT RPTD. 9708 LTD, 9700 DTD. COMP 12/20/96(EST), D&A. WILL BE REISSUED IF ADDITIONAL DATA BECOMES AVAILABLE

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#### PETROLEUM INFORMATION/DWIGHTS DAILY ACTIVITY REPORT **SECTION II - 01/22/98**

PAGE 5

COMPLETION SUMMARY

FINAL CLASS: WF = UNSUCCESSFUL NEW FIELD WILDCAT; WFD = NEW FIELD DISCOVERY; WD = UNSUCCESSFUL DEEPER POOL WILDCAT; WDD = DEEPER POOL DISCOVERY: WS = UNSUCCESSFUL SHALLOW POOL WILDCAT; WSD = SHALLOW POOL DISCOVERY; WP = UNSUCCESSFUL NEW POOL WILDCAT; WPD = NEW POOL DISCOVERY; WO = UNSUCCESSFUL WILDCAT OUTPOST; WOE = WILDCAT OUTPOST EXTENSION; D = UNSUCCESSFUL DEVELOPMENT WELL; DO = DEVELOPMENT OIL WELL; DG = DEVELOPMENT GAS WELL.

#### <u>ARIZONA</u>

#### APACHE COUNTY

**PETROSUN E&P** 15-1 NEW MEXICO & ARIZONA LAND CO API 02-001-20306

15-14N-25E 1445 FNL 1050 FEL WILDCAT; PERMIT #894: 3800 PRECAMBRIAN, (FR 06/10/96FM) OPER WF ADD: 6836 E LUDLOW, SCOTTSDALE, AZ, 85254 PHONE (602) 998-9771; EL: TA-OG 5552 GR; LOCATION DATA: 30 MI S-SW PINTA DOME FLD(COCONINO)ABND 1 1/2 MI SW HUNT, NM; PRIMARY TARGET: DEVONIAN; TO BE VERTICALLY DRILLED.

CONTR: UNITED DRLG. RIG #3:SPUD: 06/17/96, CSG: 5 1/2 @ 1342; DST # 1 (SUPAI) 1034-1062, OP 15 MIN, SI 30 MIN, OP 30 MIN, SI 1 HR, REC: 200 FT MDYWTR, 305 FT WTR, IFP 51, FFP 167, IFP 178, FFP 308, ISIP 388, FSIP 391, IHP 547; DRLG COMMENTS: OPR REPORTS ROTARY BUSHING BLEW OUT OF HOLE WITH MUD & METHANE IN SUPAI @ 1202-1232, OPERATOR MAY DRILL AN OFFSET IN FUTURE. SHOWS: 1034-1062 SUPAI OIL 1034-1062 SUPAI GAS 3648 TD, (UNKNOWN) (TD REACHED: 07/ 04/96); PROD TEST(S): PERF (SUPAI) 1204-1220, SWBD NTGN AMT NOT RPTD. 3648 TD. COMP 1/2/98, TEMP ABND. NO CORES, ONE DST RPTD. WILL REISSUE WHEN WELL COMPLETED. . . (LOIR 01/21/98)

#### **MOHAVE COUNTY**

PREMCO WESTERN 1-10 MOHAVE COUNTY API 02-015-20029

10-41N-11W NE SE 2353 FSL 510 FEL IC 20157000195

WF WILDCAT; 8500 CAMBRIAN. (FR 09/11/95FM) OPER ADD: BOX 496568. GARLAND, TX. 74049-6568 PHONE (214) 341-7010; EL: 3090 GR; LOCATION DATA: 24 MI S-SW VIRGIN FLD(UTAH/INACHOE) 9 MI SE ST GEORGE, UT; PLAN SPUD NOV-1-1995; TO BE VERTICALLY DRILLED.

CONTR: LAYNE-WESTERN; SPUD: 11/30/95, CSG: 18 @ 80, 10 3/4 @ 240 W/5 CU YD; DRLG COMMENTS: ORIGINALLY DRILLED TO 1000 FT AND SHUT-IN '95-96, HOLE CAVED-IN, DRLG RESUMED FROM 80 FT SEPT '97 380 TD, (UNKNOWN) (TD REACHED: 10/ 08/97); 380 TD, COMP 12/25/97, J&A. NO CORES OR DSTS. WILL BE REISSUED WHEN DATA AVAILABLE. . . (LDIR 01/21/98)

#### COLORADO

#### KIOWA COUNTY

SPRING THOMAS L 2 STATE BOCK API 05-061-06749

31-20S-48W NE SE 2000 FSL 660 FEL MCCLAVE; PERMIT #97-852; 4900 MORHOW, (FR 11/06/97DN) OPER ADD: DG 7400 E ORCHARD RD STE 2000, GREENWOOD VILLAGE, CO, 80111 PHONE (303) 771-1889; EL: 3989 GR; LOCATION DATA: 10 MI NNW WILEY, CO;

CONTR: MURFIN DRLG, RIG #24;SPUD: 12/06/97, CSG: 8 5/8 @ 322 W/200 SX, 5 1/2 @ 324 W/670 SX; OPENHOLE LOGS NOT RUN; 4805 TD, (MORROW) (TD REACHED: 12/ 14/97); PRODUCING INTERVAL(S) DATA: PERF (MORROW) IP NOT RPTD; DATA OF 1ST SALES 01/13/98, 320 MCFGPD). 4805 TD. COMP 1/15/98(EST), GAS WELL PROD ZONE - MORROW INT NOT RPTD. HOLDING FOR DATA ... (LDIR 01/21/98)

#### KIT CARSON COUNTY

MULL DRLG 1-21 LINDSAY API 05-063-06290 21-105-45W NW SE 1950 FSL 1980 FEL BEAVER; PERMIT #97-989; 5550 MORROW, (FR 12/29/97DN) OPER ADD: BOX 2758, WICHITA, KS, 67201-2758 PHONE (316) 264-6366; EL: 4333 GR; LOCATION DATA: 13 MI SE STRATTON, CO 1/2 MI SSE OF FLD(MORROW);

CONTR: KUDU DRLG, RIG #1:SPUD: 01/02/98, CSG: RAN SURF CSG: 5550 TD, (MORROW) (TD REACHED: 01/ 13/98): 5550 TD(APPROX). COMP (LDIR 01/21/98)

#### LA PLATA COUNTY

SG INTERESTS I 33-1 ZELLITI 34-9 API 05-067-08063 33-34N-9W SW NW 1395 FNL 1235 FWL IGNACIO-BLANCO; PERMIT #96-703; 3110 FRUITLAND COAL, (FR 10/08/96FM) OPER ADD: %SAGLE, SCHWAB & MCLEAN, BOX 2677. DURANGO, CO, 81302 PHONE (970) 259-2701; EL: 6713 KB; LOCATION DATA: S OF UTE LINE; 9 MI S DURANGO, CO; TO BE VERTICALLY DRILLED.

DG GAS

WF

D&A

CONTR: FOUR CORNERS DRLG, RIG #7 RIG SUB:12; SPUD: 12/10/96 CSG: 9 5/8 @ 320 W/450 SX, 7 @ 2726 W/480 SX; DRLG COMMENTS: BIG A WS #22 CAVITATED/COMP'D 2726-TD 3110 TD, (FRUITLAND) (TD REACHED: 12/ 13/95); PRODUCING INTERVAL(S) DATA: PERF (FRUITLAND) IP NOT RPTD 3110 TD, COMP 12/29/97, SIGW. PROD ZONE - FRUITLAND(INT NOT RPTD). NO CORES OR DSTS. HOLDING FOR DATA. . . (LDIR 01/21/98)

#### PETROLEUM INFORMATION/DWIGHTS DAILY ACTIVITY REPORT **SECTION II - 01/14/98**

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DRILLING ACTIVITY

INITIAL CLASS: WF = NEW FIELD WILDCAT; WD = DEEPER POOL WILDCAT; WS = SHALLOWER POOL WILDCAT; WP = NEW POOL WILDCAT; WO = WILDCAT OUTPOST; D=DEVELOPMENT.

DENOTES NEW INFORMATION ADDED THIS WEEK, LDIR - LAST DATE INFORMATION REPORTED OR CONFIRMED.

DENOTES A FINAL STATUS HAS BEEN ADDED TO THE WELL.

#### **ARIZONA**

#### APACHE COUNTY

PETROSUN E&P 15-1 NEW MEXICO & ARIZONA LAND CO

15-14N-25E SE NE 1445 FNL 1050 FEL WILDCAT; PERMIT #894; 3800 PRECAMBRIAN. (FR 06/10/96FM) OPER ADD: 6836 E LUDLOW, SCOTTSDALE, AZ, 85254 PHONE (602) 998-9771; EL: 5552 GR; LOCATION DATA: 30 MI S-SW PINTA DOME FLD(COCONINO)ABND 1 1/2 MI SW HUNT, NM; PRIMARY TARGET: DEVONIAN;

TO BE VERTICALLY DRILLED.

The contract of

CONTR: UNITED DRLG, RIG #3;SPUD: 06/17/96, CSG: 5 1/2 @ 1342; DST # 1 (SUPAI) 1034-1062, OP 15 MIN, SI 30 MIN, OP 30 MIN, SI 1 HR, REC: 200 FT MDYWTR, 305 FT WTR, IFP 51, FFP 167, IFP 178, FFP 308, ISIP 388, FSIP 391, IHP 547; DRLG COMMENTS: OPR REPORTS ROTARY BUSHING BLEW OUT OF HOLE WITH MUD & METHANE IN SUPAI @ 1202-1232. METHANE GAS SHOW @ 1034-1062. SHOWS: 1034-1062 SUPAI OIL 1034-1062 SUPAI GAS 3648 TD, (TD REACHED: 07/ 04/96); PROD TEST(S): PERF (SUPAI) 1204-1220, SWBD NTGN AMT NOT RPTD. . . . 3648 TD, WOO (MAY DRILL OFFSET) (LDIR 01/13/98)

#### COLORADO

#### **GARFIELD COUNTY**

**BROWN TOM INC** 19-2 BULL FORK UNIT API 05-045-07218

API 02-001-20306

19-4S-97W NE NE 898 FNL 37 FEL

WILLOW CREEK; PERMIT #97-693; 9200 ROLLINS. (FR 09/12/97DN) OPER ADD: 1301 MCKINNEY PM 2488, HOUSTON, TX, 77010 PHONE (713) 754-2637; EL: 7450 GR; LOCATION DATA: 21 1/2 MI NW PARACHUTE, CO: WELL ID CHANGES: OPR CHGD FROM CHEVRON USA.

TEST(S): PERF (COZZETTE), SWFR, GAUGE NOT RPTD. . . . 8790 TD, TSTG (LDIR 01/13/98)

CONTR: CAZA DRLG, RIG #16:SPUD: 11/15/97, CSG: 9 5/8 @ 2500, RAN PROD CSG; 8790 TD, (TD REACHED: 12/04/97), RIG REL: 12/05/97; PROD D

**BROWN TOM INC** 20-2 BULL FORK UNIT API 05-045-07208

20-4S-97W SE SE 650 FSL 1000 FEL WILLOW CREEK; PERMIT #97-600; 9200 ROLLINS, (FR 08/05/97DN) OPER ADD: 1301 MCKINNEY STE 2488, HOUSTON, TX, 77010 PHONE (713) 754-2637; EL: 7507 GR; LOCATION DATA: 30 MI NW PARACHUTE, CO; WELL ID CHANGES: OPR CHGD FROM CHEVRON USA.

CONTR: CAZA DRLG, RIG #16;SPUD: 12/16/97, . . . DRLG 8452(REMEDIAL, MW 8.9) (LDIR 01/13/98)

**BARRETT RESOURCES** 44-36 RED POINT API 05-045-07177

36-5S-96W SE SE 1151 FSL 983 FEL

WILDCAT: PERMIT #97-302; 8200 WILLIAMS FORK, (FR 05/06/97FM) OPER WF ADD: 1515 ARAPAHOE ST TWR 3 STE 1000, DENVER, CO, 80202 PHONE (303) 572-3900; EL: 5790 KB; LOCATION DATA: 2 1/4 MI NE GRAND VALLEY FLD(MESAVERDE) 8 MI NW PARACHUTE, CO; TO BE VERTICALLY DRILLED.

CONTR: FOUR CORNERS DRLG, RIG #3:SPUD: 07/01/97, 8500 TD, (TD REACHED: 07/ 30/97); ... 8500 TD, SI-WOO (LDIR 01/13/98)

**BARRETT RESOURCES** RMV 56-21 FEDERAL API 05-045-06996

21-6S-94W WW NW 500 FNL 845 FWL RULISON; PERMIT #97-74; 7550 WILLIAMS FORK, (FR 02/04/97FM) OPER ADD: 1515 ARAPAHOE ST TWR 3 STE 1000, DENVER, CO, 80202 PHONE (303) 572-3900; EL: 5451 GR: LOCATION DATA: 6 MI W-SW RIFLE, CO; TO BE VERTICALLY DRILLED.

CONTR: NABORS DRLG USA, RIG #488:SPUD: 07/28/97, 7500 TD, (TD REACHED: 08/ 17/97); . . . 7500 TD, SI (LDIR 01/13/98)

BARRETT RESOURCES RMV 101-28 SAVAGE API 05-045-07248

28-6S-94W SW NW 2497 FNL 1003 FWL RULISON; PERMIT #97-910; 7269 WILLIAMS FORK, PROJ TVD: 7214. (FR 12/04/97FM) OPER ADD: 1515 ARAPAHOE ST TWR 3 STE 1000, DENVER, CO, 80202 PHONE (303) 572-3900; EL: 5294 GR; LOCATION DATA: 6 1/2 MI WSW RIFLE, CO. TO BE DIRECTIONALLY DRILLED. PBHL: 670 FT:484 S 453 W; 2250 FSL 550 FWL NW NW SW 28-6S-94W;

CONTR: NABORS DRLG USA, RIG #457;SPUD: 01/09/98, .

**BARRETT RESOURCES** RMV 102-28 SAVAGE API 05-045-07200

28-6S-94W SW SW 400 FSL 663 FWL .. DRLG 580 (LDIR 01/13/98) RULISON; PERMIT #97-538; 7450 WILLIAMS FORK, (FR 07/15/97FM) OPER ADD: 1515 ARAPAHOE ST TWR 3 STE 1000, DENVER, CO, 80202 PHONE (303) 572-3900; EL: 5549 GR; LOCATION DATA: 8 1/2 MI NE PARACHUTE,

CONTR: NABORS DRLG USA, RIG #457; SPUD: 12/06/97, CSG: 4 1/2 @ 7566 W/905 SX: 7571 TD, (TD REACHED: 01/ 01/98); . . . 7571 TD, WOCT (LDIR 01/13/98)

**BARRETT RESOURCES** RMV 19-28 SAVAGE API 05-045-06945

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28-6S-94W NE SW 1720 FSL 1495 FWL RULISON; PERMIT #97-503; 7300 WILLIAMS FORK, (FR 07/09/97FM) OPER ADD: 1515 ARAPAHOE ST TWR 3 STE 1000, DENVER, CO, 80202 PHONE (303) 572-3900; EL: 5361 GR; LOCATION DATA: 6 MI SW RIFLE, CO:

CONTR: NABORS DRLG USA, RIG #488;SPUD: 10/22/97, CSG: 9 5/8 @ 1120 W/575 SX, 4 1/2 @ 7370 W/865 SX: 7400 TD, (TD REACHED: 11/ 16/97); . 7400 TD, SI (LDIR 01/13/98)

BARRETT RESOURCES RMV 43-28A SAVAGE API 05-045-07145

28-6S-94W SE SW 530 FSL 2050 FWL RULISON: PERMIT #97-73: 7400 WILLIAMS FORK. (FR 02/04/97FM) OPER ADD: 1515 ARAPAHOE ST TWR 3 STE 1000, DENVER, CO, 80202 PHONE (303) 572-3900; EL: 5514 GR; LOCATION DATA: 6 1/2 MI SW RIFLE, CO;

TO BE VERTICALLY DRILLED. CONTR: NABORS DRLG USA, RIG #414;SPUD: 07/03/97, CSG: 9 5/8 @ 804 W/525 SX, COND @ 42; 7400 TD, (TD REACHED: 07/ 23/97); . . . 7400 TD(APPROX), SI (LDIR 01/13/98)

### PETROLEUM INFORMATION/DWIGHTS DAILY ACTIVITY REPORT SECTION II - 11/06/97

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WF

WF

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D

DRILLING ACTIVITY

INITIAL CLASS: WF = NEW FIELD WILDCAT: WD = DEEPER POOL WILDCAT; WS = SHALLOWER POOL WILDCAT; WP = NEW POOL WILDCAT; WO = WILDCAT OUTPOST; D = DEVELOPMENT.

DENOTES NEW INFORMATION ADDED THIS WEEK, LDIR - LAST DATE INFORMATION REPORTED OR CONFIRMED.

DENOTES A FINAL STATUS HAS BEEN ADDED TO THE WELL

#### **ARIZONA**

#### **APACHE COUNTY**

PETROSUN E&P 15-1 NEW MEXICO & ARIZONA 15-14N-25E SE NE 1445 FNL 1050 FEL LAND CO API 02-001-20306

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WILDCAT; PERMIT #894; 3800 PRECAMBRIAN. (FR 06/10/96FM) OPER

ADD: 6836 E LUDLOW, SCOTTSDALE, AZ, 85254 PHONE (602) 998-9771; EL: 5552 GR; LOCATION DATA: 30 MI S-SW PINTA DOME FLD(COCONINO)ABND 1 1/2 MI SW HUNT, NM; PRIMARY TARGET: DEVONIAN: TO BE VERTICALLY DRILLED.

CONTR: UNITED DRLG, RIG #3;SPUD: 06/17/96, CSG: 5 1/2 @ 1342; DST # 1 (SUPAI) 1034-1062, OP 15 MIN, SI 30 MIN, OP 30 MIN, SI 1 HR, REC: 200 FT MDYWTR, 305 FT WTR, IFP 51, FFP 167, IFP 178, FFP 308, ISIP 388, FSIP 391, IHP 547; DRLG COMMENTS: OPR REPORTS ROTARY BUSHING BLEW OUT OF HOLE WITH MUD & METHANE IN SUPAI @ 1202-1232. METHANE GAS SHOW @ 1034-1062. SHOWS: 1034-1062 SUPAI OIL 1034-1062 SUPAI GAS 3648 TD, (TD REACHED: 07/ 04/96); PROD TEST(S): PERF (SUPAI) 1204-1220, SWBD NTGN AMT NOT RPTD. . . . 3648 TD, SI (MAY DRILL OFFSET) (LDIR 11/05/97)

#### **COLORADO**

#### ADAMS COUNTY

**HS RESOURCES** 3-28 HSR-MOST NOBLE

28-1S-60W NE NW 660 FNL 1980 FWL

WILDCAT; PERMIT #95-532; 6600 DAKOTA, (FR 06/23/95DN) OPER ADD: 3939 CARSON AVE. EVANS, CO, 80620 PHONE (303) 330-0614; EL: 4869 GR; LOCATION DATA: 1 MI SE NILE FLD(D & J SAND) 16 MI N-NE BYERS, CO; TO BE VERTICALLY DRILLED.

CONTR: EXETER DRLG, RIG #72; SPUD: 07/11/95 (EST), 6600 TD, (TD REACHED: 07/ 18/95); ... 6600 TD(APPROX), TITE HOLE (LDIR 11/05/97)

PETERSON ENERGY MGMT 1 LINNEBUR API 05-001-09341

4-1S-61W SE SE 1220 FSL 720 FEL

WILDCAT; PERMIT #96-569; 7150 J SAND, (FR 08/20/96DN) OPER ADD: 1905 MORNING DR, LOVELAND, CO. 80538-8619 PHONE (970) 669-7411; EL: 4992 GR; LOCATION DATA: 2 1/2 MI E PRONTO FLD(D SAND)TA 2 1/2 MI NW FRIDAY FLD(D SAND) 19 MI NE BENNETT, CO. TO BE VERTICALLY DRILLED.

CONTR: ASHBY DRLG, RIG. #2;SPUD: 08/28/96, 7150 TD, (TD REACHED: 09/ 03/96); . . . 7150 TD(APPROX), TITE HOLE (LDIR 11/05/97)

SNYDER OIL 18-12M4 WAGNER API 05-001-09265

18-1S-64W NW SW 1640 FSL 1000 FWL WATTENBERG; PERMIT #94-1310; 8030 DAKOTA. (FR 09/16/94DN) OPER ADD: 1625 BROADWAY STE 2200, DENVER, CO, 80202 PHONE (303) 592-8500; EL: 5184 KB; LOCATION DATA: 11 MI E-SE BRIGHTON, CO: TO BE VERTICALLY DRILLED.

CONTR: KENTING APOLLO DRL, RIG #9:SPUD: 12/08/94, CSG: 7 @ 1487 W/380 SX, 4 1/2 @ 7972 W/130 SX; LOG TYPES: CAL, CBL, CDL, CNL, GR. VD; 8030 TD, (DAKOTA) (TD REACHED: 12/ 12/94) 7986 PBTD; ... 8030 TD, PB 7986, SI, WOE (LDIR 11/05/97)

#### **ARAPAHOE COUNTY**

**HS RESOURCES** 6-33 HSR-BLAIR API 05-005-07018 33-45-63W SE NW 1980 FNL 1980 FWL WILDCAT; PERMIT #94-1555; 8300 DAKOTA, (FR 10/11/94DN) OPER ADD: 3939 CARSON AVE, EVANS, CO, 80620 PHONE (303) 330-0614; EL: 5672 GR; LOCATION DATA: 1/2 MI E BOMBING RANGE FLD(J SAND) 6 1/2 MI S BENNETT, CO. TO BE VERTICALLY DRILLED.

CONTR: EXETER DRLG, RIG #17;SPUD: 10/11/94, 8390 TD, (TD REACHED: 11/19/94); ... 8300 TD(APPROX), SI-TITE HOLE (LDIR 11/05/97)

#### **BACA COUNTY**

**WATSON EXPL** 1-13 HOME IMPROVEMENT API 05-009-06575

13-31S-42W SE SE 381 FSL 1220 FEL GREENWOOD; PERMIT #97-606; 3500 TOPEKA, (FR 10/22/97DN) OPER ADD: 4500 H40 W STE C. AMARILLO, TX, 79106 PHONE (906) 355-9577; EL: 3720 GR: LOCATION DATA: 10 1/4 MI ESE WALSH, CO; WELL ID

CHANGES: WELL # CHGD FROM 7-13 CONTR: CHEYENNE DRLG. RIG #8;SPUD: 10:21/97 (EST), CSG: 8 5/8 @ 769, 5 1/2 @ 3450; 3450 TD, (TD REACHED: 11/01/97); ... 3450 TD, WOCT (LDIR 11/05/97)

#### **CHEYENNE COUNTY**

**ANSCHUTZ EXPL LTD** 13-20 LOWE API 05-017-07563

20-12S-45W SW SW 860 FSL 1150 FWL WILDCAT; PERMIT #97-724; 5910 MORROW, (FR 09/29/97DN) OPER ADD: 555 17TH ST STE 2400, DENVER, CO. 80202 PHONE (303) 298-1000; EL: 4481

GR; LOCATION DATA: 5 1/2 MI WNW ARCHER FLD/OSAGE/SHAWNEE/MORROW/ MISSISSIPPIAN/TOPEKA/MARMATON/FORT SCOTT/LANSING) 13 MI NW CHEYENNE WELLS, CO.

CONTR: MULL DALG, RIG #25;SPUD: 11/03/97 (EST), ... DRLG-TITE (LDIR 11/05/97)



Fife Symington Governor

# State of Arizona Arizona Geological Survey

416 W. Congress, Suite 100 Tucson, Arizona 85701 (520) 770-3500



Larry D. Fellows
Director and State Geologist

August 19, 1997

Mr. Gordon LeBlanc PetroSun Exploration & Production 8129 North 87th Place Scottsdale, Arizona 85258

Re: PetroSun E & P 15-1 NMAL, Permit 894

Dear Mr. LeBlanc:

Thank you for your letter of August 18 about plugging the referenced well. Our Rule R12-7-129 allows for wells to be used for fresh water, and the 15-1 may be turned over to the surface owner for conversion to a water well provided that the well is plugged in accordance with R12-7-127 to a point immediately below the freshwater (Coconino) strata. Our Rules R12-7-126, R12-7-127, R12-7-129, and water well acceptance form are enclosed for your convenience.

With reference to the attached sketch of the current mechanical condition and cement bond log of the NMAL 15-1, our concern will be placing cement across the open perforations from 1206-26 feet and in the open annulus from about 1070 feet to the surface. Please feel free to call and discuss the sketch or plugging plan.

Also, please note that the Commission has not yet scheduled its next meeting. I will let you know when it is scheduled.

Sincerely,

Steven L. Rauzi

Oil & Gas Program Administrator

Steven L. Rais

Enclosures

J. Dale Nations, Chairman, Oil and Gas Conservation Commission Larry D. Fellows, Director and State Geologist CNA Surety, 2600 N. Central, Ste. 400, Phoenix Office of Attorney General

PetroSun 15-1 NiMAL (894) - surface whatis Plessure on annulys? SUPAI 530 609' TOC~1070' } Perf 1206-1226' 1368 { BP?

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PetroSun # 15-1 NMAL(894) Likely TOC @ 1070' 1100 5.2 1200

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## **PetroSun**

August 18,1997

Mr. Steven L. Rauzi
Oil & Gas Program Administrator
Arizona Geological Survey
416 W. Congress, Suite 100
Tucson, AZ 85701

Re: PetroSun E & P NMAL 15-1, Permit #894

Dear Mr. Rauzi,

In response to your letter dated August 14,1997 PetroSun E & P has scheduled the plugging of the above referenced well to coincide with another Supai test to be drilled during the month of October. The NMAL 15-1 will be turned over to the surface owner for future conversion to a water well.

Please furnish our office with a copy of A.A.C. R12-7-126 and R12-7-127 as well as the time and place of the next commission meeting.

Sincerely,

Gordon M LeBlanc, Jr. President



8129 N.87th Pt. 85258 6070600
PetroSun Exploration & Production, Inc. 6836 E. Ludlow, Scottsdale, AZ 86264 • (602) 998-9771





Fife Symington Governor

## Arizona Geological Survey

416 W. Congress, Suite 100 Tucson, Arizona 85701 (520) 770-3500



Larry D. Fellows
Director and State Geologist

August 14, 1997

Mr. Gordon LeBlanc PetroSun Exploration & Production 8129 North 87th Place Scottsdale, Arizona 85258

Re: PetroSun E&P 15-1 NMAL, Permit 894

Dear Mr. LeBlanc:

According to records submitted to this office by PetroSun Exploration and Production, Inc., there has been no activity at the referenced well since August 1996. As a result, State law now requires the well to be plugged and abandoned in accordance with A.A.C. R12-7-126 and R12-7-127.

Since we have received no response to our letter of June 26, 1997, regarding your obligation to plug and abandon the referenced well, would you please advise this office as soon as possible when and how you plan to plug and abandon it.

Otherwise, we will look to your Surety, American Casualty Company of Reading Pennsylvania, Bond # 141514412, for remedy.

Sincerely,

Steven L. Rauzi

Oil & Gas Program Administrator

Steven L. Paris

J. Dale Nations, Chairman, Oil and Gas Conservation Commission Larry D. Fellows, Director and State Geologist CNA Surety, 2600 N. Central, Ste. 400, Phoenix Office of Attorney General

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Call Katen Ranger, Minard-Ames, Inc.

As pesident agent, simply firmands correspondence, etc on

Joral address fot: CNA Surety

2600 N. Central Ave, ste 400

PO BOX 29242

Phx AZ 85038

CNA is parent company including Minard-Ames, American

Casualty (o. of Reading Prensylvania

Call Corporation Commission 542-3026

(D PetroSun Exploration & Production, Inc. 4/4/96 action & soul status

(2) Cronus Corporation, Nevada Corporation, 11/6/96 action & soul status

12/11/98 Call Conporation Commission 542-3026

() PetroSun Exploration & Production & Soul status

(2) Cronus Corporation Commission 542-3026

(1) PetroSun Exploration & Prod.: action & soul status, Feb 198 and pot.

(2) Cronus Corporation Status 11/19/98.

Chris Wright 602-273-1625

7-16-97

(3





Fife Symington Governor

# State of Arizona Arizona Geological Survey 416 W. Congress, Suite 100

416 W. Congress, Suite 100 Tucson, Arizona 85701 (520) 770-3500



Larry D. Fellows
Director and State Geologist

July 7, 1997

Mr. Gordon LeBlanc PetroSun Exploration & Production 8129 North 87th Place Scottsdale, Arizona 85258

Re: PetroSun E&P 15-1 NMAL, Permit 894

Dear Mr. LeBlanc:

A faxed copy of your letter of July 5 was received today. Our letter of April 18 advised you that we have not received a completion report on the referenced well. The completion report is now due and should be filed as soon as possible. A blank report is enclosed for your convenience.

Also enclosed for you convenience are an application to plug and abandon and a plugging record.

Sincerely,

Steven L. Rauzi

Oil & Gas Administrator

Steunt Pains

**Enclosures** 

PetroSun

July 5,1997

Mr. Steven L. Rauzi Oil & Gas Administrator Arizona Geological Survey 416 W. Congress, Suite 100 Tucson, AZ 85701

894

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Dear Steve,

I received your letter dated June 26,1997 that referred to a letter dated April 18,1997 concerning status of the NMAL 15-1, Permit #894. I did not receive the letter dated April 18,1997, therefore I could not respond. As to the activity related to the NMAL 15-1, the last activity would have been the completion attempt in the blow-out zone which occurred on or about August 9,1996.

PetroSun E & P merged with a publicly traded company, Cronus Corporation, on April 4,1997 and is completing an audit as required by the SEC. The audit should be completed within the next ten days. Our plans include the resumption of operations in Arizona shortly thereafter.

Please note our new mailing address, 8129 North 87th Place, Scottsdale, Arizona 85258, phone number 602-607-066 and fax number 602-607-0500.

Looking forward to working with you in the near future.

Gordon Leblanc, Jr. President

Simeerely,

ARIZONA GEOLOGICAL SURVEY

- CONTRACTOR OF THE PARTY OF TH

416 W. CONGRESS, SUITE 100, TUCSON, AZ 85701

FAX
State of Arizona
Arizona Geological Survey
416 W. Congress, Suine 100
Tuessen, Arizona 85701
(520) 770-3500



Date: 6-30-97

Number of pages including cover sheer:

To Marc	<i>T.</i>	Steadman
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Phone:		
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Phone:	(520) 770-3500	سسدد
Fax phone:	(520) 770-350 <i>5</i>	

REMARKS:	☐ Urgent	For your review	Reply ASAP	☐ Please comment.
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416 W. CONGRESS, SUITE 100, TUCSON, AZ 85701 ARIZONA GEOLOGICAL SURVEY

Arizona Geological Survey
416 W. Congress, Suite 100
Tucson, Arizona 85701
(520) 770-3500



6-30-97 Date:

Number of pages including cover sheet:

To:	Chris W.	right	
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Pho	e: 602-273	1-1625	
	e: 602-273 phone: 602-2		

0:14	Gas Administration
<u> </u>	
hone:	(520) 770-3500

For your review Reply ASAP ☐ Please comment ☐ Urgent REMARKS:

PetroSun Bond 1415 14412 and attorney in Fact

Chris called 6/30/97 to beguest bound # and power of Afformey so they may get my letter of June 26, 1997 to proper individual.





Fife Symington Governor

# State of Arizona Arizona Geological Survey

416 W. Congress, Suite 100 Tucson, Arizona 85701 (520) 770-3500



Larry D. Fellows
Director and State Geologist

June 26, 1997

Mr. Gordon LeBlanc
PetroSun Exploration & Production
6735 E. Greenway Parkway #1040
Scottsdale, Arizona 85254

Re: PetroSun E&P 15-1 NMAL, Permit 894

Dear Mr. LeBlanc:

Our records show that we have received no response to our letter of April 18, 1997, about the status of and your plans for the referenced well. There has now been no activity at the well for one year. As a result, advise this office as soon as possible when and how you plan to plug it. Otherwise, we will look to the Surety for remedy.

Sincerely,

Steven L. Rauzi

Oil & Gas Administrator

Stewn L. Raring

c Karen K. Ranger, American Casualty Co. of Reading Pennsylvania





Fife Symington Governor

# Arizona Geological Survey

416 W. Congress, Suite 100 Tucson, Arizona 85701 (520) 770-3500



Larry D. Fellows
Director and State Geologist

April 18, 1997

Mr. Gordon LeBlanc PetroSun Exploration & Production 6735 E. Greenway Parkway #1040 Scottsdale, Arizona 85254

Re: PetroSun E&P 15-1 NMAL, Permit 894

Dear Mr. LeBlanc:

A review of our files shows that we have not received a completion report on the captioned well. Please note that the completion report is required to be filed with this office within thirty days of completion pursuant to A.A.C. R12-7-121. As a result, I request that you file the report noting that the well was completed and temporarily abandoned as soon as possible.

What is the current status of the captioned well? Do you have plans to conduct further tests? If not, will you advise this office at your earliest convenience when and how you plan to plug it.

Sincerely,

Steven L. Rauzi

Oil & Gas Administrator

Stumb. Kais

New address: 6735 E. Greenway Parkway #1040 Scottsdale, AZ 85254

file 894

Vid 12-20-96

Blessings at Christmas and always.

Gordon LeBlanc, Dr.
PetroSun Exploration + Production, Inc.

THE PROPERTY OF

8/20/96 John Somers

Joe Sphat nervous

bills not setting paid

Is bond sufficient to paa

1370'

1070' toc on bond loss

most likely source of gas

1030-34' = clean dolomite

12% \$

N-D closs over

> 2000 ohm tesistivity
plan set over dolomite.

# **PetroSun**

August 14,1996

Arizona Geological Survey Attention: Mr. Steve Rauzi 416 W. Congress, Suite 100 Tucson, AZ 85701

Re: NMAL 15-1 Confidentiality

Dear Steve,

Sincerely,

PetroSun has previously held a verbal confirmation on the confidentiality of information from the NMAL 15-1 by the Arizona Geological Survey. We are hereby requesting by this letter that under Rule 121 that the Arizona Geological Survey hold all data from the NMAL 15-1 confidential for a period of not less than six months.

Gordon LeBlanc, Jr. President



file 894



# High Plains Petroleum Corporation

3860 Carlock Dr. Boulder, CO 80303 303-494-4529

August 7, 1996

Mr. Kerry Smith Fax No. 505-258-5925 file 894

Cobb Resources Corp. Fax No. 409-345-4246

Mr. Charles Cobb

Mr. Paul Slayton Mountain States Petroleum Fax No. 505-623-7186

Re: Testing of NMAL 15-1

Gentlemen,

This letter is to inform you that the testing that took place last week very likely did not test the zone that blew out while NMAL 15-1 was being drilled. As a result, further testing to test the zone that appears to contain the methane gas that blew out, a clean porous dolomite, is recommended.

On the way to Arizona to witness the testing, I stopped and met with Mr. J.D. Sphar, the vice president of minerals for New Mexico and Arizona Land Company, who is a geologist. Joe had reviewed the mud log and the open hole logs, and he doubted that the zone that was tested last week, the zone from 1212' to 1232', without any samples, could be the source of the gas. The reasons that he reached that conclusion, which I agree with, are: (1) The zone drilled at the same rate as the anhydrites and salts that are above and below the section with missing samples; (2) There were reverse drilling breaks (slowdowns) when siltstone or dolomites were drilled, and the zone that was perforated drilled fast, like salt; (3) In the interval with missing samples, the gamma ray log shows something that isn't very clean and appears to be shale, or shaley at the top; (4) A zone with a similar gamma ray character is from 1260' to 1290', and it's a shale on top of a siltstone according to the mud log, indicating that the interval that was tested is a dirty, shaley siltstone; and (5) The SP log from 1210' to 1226', where the samples were lost, shows a series of thin beds, and the resistivity log does not have a sufficient resistivity to indicate that those beds contain gas, which normally has very high resistivity. Copies of the logs showing this analysis are attached.

Since any zone containing gas and sufficient pressure could have blown out after the mud weight went below 7 lbs/gal, we looked at the logs to find out if there is another zone that clearly does contain gas. What we found was that methane gas first showed up at 1032' after drilling a couple feet into a dolomite with "good vuggy porosity" according to the mud log. The gamma ray log shows a clean zone from 1030' to 1036'; the resistivity is offscale, over 2000 ohms, indicating gas; the sonic log porosity is from 9 to 12%; there is neutron-density crossover, indicating the presence of gas; and the mud logger reported mostly methane gas, like the methane gas that the mud logger detected during the blowout. Therefore, that combustible methane gas most likely came from the clean top of that dolomite section. Copies of the logs across the gas bearing zone are also attached.

Testing of NMAL 15-1 August 7, 1996 Page 2

1 <u>322-27-2</u>-450 (

When this analysis and information were provided to PetroSun last Tuesday, July 30th, PetroSun's geologist, John Templin, stated that "we (?) wouldn't be interested in a 6 foot zone", even though it has been learned from drilling NMAL 15-1 that the carbonates thin over the crest of the structure and thicken on the sides of Concho Dome. For example, the Ft. Apache was 50 feet thick in NMAL 15-1, and it is over 80 feet thick to the northeast in the Grimm well and 70 feet thick in Arkla's potash well on the southwest flank of the structure. Therefore, this gas zone could also thicken 20 to 30 feet. In fact, since we are dealing with a carbonate reef, NMAL 15-1 could be on the edge of a reef and an offsett could be much thicker and more porous, like Ridgeway's wells on St. Johns Anticline, which have ever 30% dolomite porosity. Arkla's geologist stated that the Supai could contain pinnacle reefs, like the Michigan Basin.

The top of cement is 1070', so it would be necessary to perforate and cement the zone before it could be tested. However, the well cannot be abandoned without either perforating and cementing that gas bearing zone or cutting off and setting a cement plug across the zone, so it wouldn't cost much more to test the zone, just the cost of perforating with high performance jets that shouldn't require acidizing and the cost of the rig time to test. Without such additional testing, this well has not been adequately tested, and PetroSun could be abandoning a gas well with estimated reserves of 376 MMscf for 6 feet of pay, or 1.25 Bcf for 20 feet of pay, which could be present a short distance away.

In its present condition, with an uncemented gas bearing zone in the annulus, this well cannot be safely released to the landcwner for completion as a water well. It must be cemented. Otherwise, it could blowout and you, along with PetroSun, could be liable for the damages. The first time that it blew out, no one was hurt and it didn't catch fire, or cause any damage. The next time, it could hurt someone, like an unsuspecting surface landowner.

Since the hole was washed out during drilling and the methane bearing zone has been exposed to mud invasion, it might be best to move over and drill a shallow, 1100 to 1300 foot well, as Paul has suggested. Then, it could be drilled with a saturated salt mud, the hole wouldn't be washed out, the gas zone wouldn't be damaged and it would be possible to determine exactly where the gas is coming from, without relying on log interpretation. As we discussed with PetroSun before last week's testing, such a well would have cost about the same as testing both intervals to find the gas in this well.

Sincerely,

John Somers

Attachments with mailed copy

cc: Mr. Frank Welker Cobb Resources Fax No. 505-293-7434 Mr. J.D. Sphar New Mexico and Arizona Land Co. Fax No. 505-889-3682

#### St. JOHNS

Council accepts \$150,000 damage claim settlement See story below

#### APACHE COUNTY

Natural gas well could prove commercially viable See story below

#### SPRINGERVILLE

Girl to compete in finals of state pageant Page 2A

Apache County Hill Redule 1

Independent

50¢

USPS Publication 027-520

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Volume 88 Number 58

In Consolidation with the Pinetop-Lakeside News 23991990 North Parkers Parkers

Friday, July 19, 1996

# Natural-gas well in county may provide commercial quantities

Donna L. Whiting
The Independent

APACHE COUNTY — Primary indications are that a natural-gas well drilled approximately 1.5 miles southwest of Hunt will provide a significant quantity of gas for commercial use.

Phil Gardner, Apache County Economic Security Corporation director, said that PetroSun Exploration and Production Company has verified the purity of the natural-gas strike but not the quantity. He said the field looks "very promising." A detailed study of the well site has yet

See GAS WELL, Page 12A

#### GAS WELL from Page A

to be completed.

"This seems to be a viable commercial discovery," Gardner said.
"The fact that the gas was found so shallow and outside of a known field bears additional analysis."

Steve Rauzi, Arizona Oil and Gas Program Administrator, agreed with Gardner and said the rate and volume of the prospective field still needs to be determined.

"(The current well) is promising enough that (PetroSun) would spend money on additional drilling to confirm the existence of a commercial field, "Rauzi said. "I would call the find significant."

Rauzi said PetroSun would determine the volume and how long it will last by "perforating the pipe in the hole" and testing the pressure at various intervals.

"... there is no way at this point to tell how long (the well) will produce without additional analysis." Rauzi said, "Testing will show the flow and rate information and whether it will produce at 5-cubic-feet per day; or a million-cubic-feet per day."

Gordon LeBlanc Jr, who heads PetroSun, contacted ACES when he received his permit to drill and the company was provided with information about the general area. file 894

Munger Oilogram, Page 8

PESCADO Exxon Corp. "OCS P-0182" HE-22 04-311-20748 OCS 52N-77W,LGZ VI: X=783,927'E Y=018.052'N 26c.1532 16c.1155-2050 8771'-est.td Directional S-1:30pm-07/08/96 (Rig oper by Helmerich & Payne) Map:129-2 5000 Drilled. Preparing to run 10-3/4" csg.

GEOTHERMAL ACTIVITY CAMP WILSON SAN BERNARDING CO *Navy "CW" 1 S-06/25/96 (Welch & Howell Drlg #12) SAN BERNARDING COUNTY 7-1N-9E SB,CCS Zone V: 301,700.029'N 2,562,021.044'E (Test hole) ?c.250 ?c.500 1313 TD Drilled. Cmtd csg at 500'. Released rig

*Navy *CW" 2 S-07/10/95 (Welch & Howell Drlg #12) ?-1N-9E 5B,CCS ZONE V: 291,719.537'N 2,554,606.101'E (Test hole) 780+ Drilling.

STATE OF ALASKA UMIAT MERIDIAN ENDICOTT BP Expl(Alaska) Inc. "Duck Island Unit" MPI 1-65/N25 Br DXPI(ALBERA) INC. "DUCK ISLAND UNIT" MPI 1-65/N2:
36-12N-16E UM, Fr SE cor 3058'N 2218'W(Surface)
6-11N-17E UM, Fr NW cor 23'S 4825'E(BHL) Map:AL-5
50-029-22627 S-12/12/95(Doyon Drig Co #15)
Directional Status:OIL-01/26/96
13286 TVD10088 Drilled, no details. Released rig 1/26/96. Completed oil well.

KUPARUK RIVER ARCO Alaska Inc. "Kuparuk River Unit" 3F-17 19-12N-9R UM, Fr SE COT 88'N 240'W (Surface) 19-12N-9B UM.Fr SE cor 2521'N 2121'W(est.BHL) 7-5/8c.3485 50-029-22685 Directional Map:AL-4 S-07/12/96 (Parker Drlg Co #245) 7165 Cmtd 7-5/8* csg at 3485'. Drilled to TD. Running 5-1/2* csg.

ARCO Alaska Inc. "Kuparuk River Unit" 3F-18 29-12N-9E UM, Fr NW cor 23'S 14'E(Surface) 30-12N-9E UM, Fr SE cor 2491'N 279'W(est.BHL) 16c.121 7-5/8c.3481 5-1/2c.6658 50-029-22684 S-4pm-07/02/96 (Parker Drlg Co #245) Directional 5868 Cmtd 5-1/2" csg at 6658'. Released rig 7/11/96. Map:AL-4 Status:OIL

ARCO Alaska Inc. "Kuparuk River Unit" 3G-03 24-12N-8E UM, Fr NW cor 2538'S 320'E(Surf) 24-12N-8E UM, Fr NE cor 2261'S 1137'W(est BHL) 50-103-20245 Directional Map:AL-4 Permit #96-122 approved.

ARCO Alaska Inc. "Kuparuk River Unit" 3G-25 24-12N-8E UM, Pr NW cor 2538'S 20'E(Surf) 14-12N-8E UM, Pr SR cor 1550'N 1780'W(est BHL) 50-103-20244 Directional Map:AL-4 Permit #96-118 approved.

MILNE POINT BP Expl (Alaska) Inc. "Milne Point Unit" F-29 6-13N-10E UM, Fr SE cor 1881'N 2678'W (Surface) 25-14N-9E UM, Fr SE cor 3155'N 4348'W(est.BHL) 50-029-22688 S-07/02/96 (Nabors Drlg #22E) Directional Map:AL-4 ???? Drilling, no details.

**ARCO Alaska, Inc. *West Niakuk* 2 Directional 36-12N-1SE UM, Fr SE cor 1258'N 1112'W(Surface) 22-12N-15E UM, Fr SE cor 2519'N 2909'W(est top prod zone) Map:AL-5 (EXT) Filed for permit on 5/16/96.

BP Expl (Alaska) Inc. "Niakuk" MK-28 50-029-22678 36-12N-15E UM, Pr SE cor 1258'N 1112'W(Surface) 22-12N-15E UM, Fr NW cor 2097'S 1677'E(est.BHL) S-06/04/96(Pool #7) Directional Map:AL-5 ???? Drilling, no details.

July 18, 1996

PRUDHOE BAY ARCO Alaska Inc. "Prudhoe Bay Unit" 05-018 Map:AL-5 32-11N-15E UM, Fr SW cor 2790'N 1072'E(Surf) 32-11N-15E UM, Fr SW COT 4097'N 1482'E(BHL)
32-11N-15E UM, Fr SE COT 4403'N 3955'W(BHL-RD1)
32-11N-15E UM, Fr NE COT 445'S 1830'W(est BHL-RD2)
20c.110 13-3/8c.2710 9-5/8c.9299 50-029-20136-02 (Nabors Drlg #2ES) Rsm-11am,7/16/94 Rel-7/25/94 (Rowan Drlg #35) S-8/2/74 Rig rel-9/6/74 Rsm-07/12/96(Doyon Drlg Co #9) Directional 9310 RD8995 Issued permit #96-120 on 7/10/96. Resumed 7/12/96 for redrill.

ARCO Alaska Inc. "Prudhoe Bay Unit" 05-03B Map:AL-5 32-11N-15E UM, Fr SE cor 2438'N 4134'W(Surface) 5-10N-15E UM, Fr NW cor 1178'S 4188'E (BHL) 5-10N-15E UM, Fr NE cor 744'S 274'W (BHL-RD#1) 5-10N-15E UM, Fr SE cor 4750'N 301'W(BHL-RD#2) 13-3/8c.2715 9-5/8W.???? ?c.???? 50-029-20147-02 (Nabors #2ES) Rsm-4pm,5/23/93 Rig rel-6/20/93 (Rowan Drlg #35) S-10/21/74 Rig rel-12/8/74 Rsm-06/24/96 (Doyon Drlg Co #9) Directional 10601 RD????? Redrilled, no details. Released rig

ARCO Alaska Inc. *Prudhoe Bay Unit* 15-44 Map:AL-4 22-11N-14E UM, Pr SE cor 4735'N 5178'W(Surface) 15-11N-14E UM, Fr SE cor 2297'N 2375'W(est.BHL) 50-029-22683 S-06/21/96(Doyon Drlg Co #14) Directional ????? Drilled, no details. Released rig

aprx.7/11/96.

BP Expl (Alaska) Inc. "Prudhoe Bay Unit" A-16A 35-11N-13E UM, Fr NE cor 3016'S 1014'W(Surface) 2-10N-13E UM, Fr NW cor 659'S 87'E(BHL)
2-10N-13E UM, Fr SE cor 2546'N 5133'W(est.BHL-RD) 13-3/8c.2698 9-5/8c.10503 7c.11558 50-029-20521-01 (Nabors Drlg #18B) S-11/7/80 Rig rel-12/22/80 Rsm-07/09/96 (Nabors Drlg #18E) Directional 11558 Resumed 7/9/96 for redrill. Map:AL-4

BP Expl (Alaska) Inc. "Prudhoe Bay Unit" B-02A 31-11N-14E UM. Pr NE cor 931'S 1598'W (Surface) 32-11N-14B UM, Fr NW cor 1980'S 1980'E (BHL) 32-11N-14E UM, Fr SE cor 3497'N 391'W(est BHL-RD)
20c.2307 13-3/8c.4626 50-029-20066-01 Directional (Brinkerhoff Nat.110-#36) S-apx.4/9/70 Comp-6/5/70 Rsm-07/01/96 (Doyon Drlg Co #16) Map:AL-4 10755 Resumed 7/1/96 for redrill.

BP Expl (Alaska) Inc. : "Prudhoe Bay Unit" B-36 31-11N-14E UM, Fr SE COT 4751'N 1894'W(Surface) 29-11N-14E UM, Fr SW cor 1665'S 5061'E(BHL) ?c.????? 50-029-22667 Directional Map:AL-4 S-05/01/96(Nabors Drlg #28E) Status:0IL-06/04/96 12691 TVD9095 Completed cil well 6/4/96.

BP Expl (Alaska) Inc. "Prudhoe Bay Unit" J-20A 9-11N-13E UM, Fr NE cor 1215'S 802'W (Surface) 14-11N-13E UM, Fr NE cor 438'S 5262'W(BHL) 11-11N-13E UM; Fr NE cor 4138'S 4298'W(est.BHL-RD) 20c.110 13-3/8c-2978 9-5/8c.11152 7c.12250 50-029-21716-01 Rsm-07/09/96(Nabors Drlg #2ES) (Alaska United #2) S-3am,4/21/87 Rig rel-5/9/87 Directional Map:AL-4 12250 Pg12203 Resumed 7/9/96 for redrill.

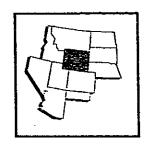
OTHER WESTERN STATES

STATE OF ARIZONA APACHE COUNTY *Petrosun E&F Inc. "New Mexico & Arizona Land Co" 15-1 15-14N-25E, Fr NE cor 1445'S 1050'W 02-001-20306 8-5/86.610 5-1/26:1368 elev:5552'GR 3800'-est.td S-pm-06/17/96 (United Drlg Inc.) Map:AZ (NFW) 3650 Had strong kick of Methane at 1228'. Ran DST 1034-1062' in Supai Formation. Opened for 15 min, shut in for 30 min, opened for 30 min, shut in for 1 hour Recov 200' of muddy wtr. 305' of wtr. Initial : test 51 psi, final 167 psi, SIP 388 psi, 2nd test 178 psi, final 308 psi, SIP 391 psi.



# **ROCKY MOUNTAIN**

#### **REGION REPORT**



**WYOMING EDITION** 

Vol. 69, No. 137 7-16-96



#### Drilling Under Way at Remote Southeastern Nevada Wildcat

ARDINAL DRILLING is rigging up its Rig#2 to drill a remote 9000-ft wildcat for Hunt Oil Co on the western flank of the Highland Mountains in a previously undrilled area of southeastern Nevada eight miles west of the town of Pioche.

The 1-30 USA, ne se 30-1n-66e, Lincoln County, is approximately 70 miles southeast of Grant Canyon field, a Railroad Valley pool in neighboring Nye County that produces from the Devonian Guilmette and Simonson (PI 5-15-96).

Approximately 60 miles to the northeast, Hunt two years ago plugged and abandoned a remote wildcat in southwestern Utah on the southern end of the non-producing Sevier Basin/Sevier Arch region. That well, the 1-25 USA in ne nw 25-27s-

### Pipe Set at Remote Wildcat Near Hunt in Eastern Arizona

Petrosun Exploration & Production Co has set production casing to 1342 ft for tests of Supai (Pennsylvanian) at a remote eastern Arizona wildcat drilled one and a half miles southwest of Hunt.

The Apache County venture, the 15-1 New Mexico & Arizona Land Co in se ne 15-14n-25e, was set up as a 3800-fit test to Precambrian and was drilled by United Drilling's Rig#3 to a total depth of 3648 ft. It was designed primarily to evaluate Devonian zones (PI 6-11-96).

The remote prospect is about 27

miles northwest of one of two shut-in discoveries completed by Ridgeway Arizona Oil Co two years ago near St. Johns. Ridgeway's 1 Ridgeway/ Canstar-Plateau Cattle Co, se nw 15-12n-29e, flowed carbon dioxide, helium and nitrogen from Fort Apache (Permian) at 1410-79 ft and 1680-1720 ft.

The Petrosun wildcat is approximately 30 miles south and slightly west of the Pinta Dome/Navajo Springs field area, where nonflammable, helium-bearing gas has been produced from the Permian Coconino sandstone.

16w, northern Beaver County, was drilled approximately 90 miles westnorthwest of shallow Moenkopi production in Virgin field. It was origi-

nally projected to 18,500 ft and encountered two thrust faults en route to a total depth of 12,400 ft. Hunt cut 25 sidewall cores at the venture.

NEWSLETTER
DAILY ACTIVITY REPORT
WYOMING

G

SECTION II SECTION III



Petroleum Information® Corporation

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Fife Symington Governor

# Arizona Geological Survey

416 W. Congress, Suite 100 Tucson, Arizona 85701 (520) 770-3500



Larry D. Fellows
Director and State Geologist

July 15, 1996

Mr. Gordon LeBlanc PetroSun Exploration & Production 6836 E. Ludlow Scottsdale, Arizona 85254

Re: PetroSun E&P 15-1 NMAL, Permit 894

Dear Mr. LeBlanc:

This will acknowledge receipt of the washed and dried cuttings from surface to 3648' (mud log not received), a copy of the Compensated Neutron Formation Density Gamma Ray log, Borehole Compensated Sonic log, Dual Laterolog, Baker Oil Tool report for DST 1, and morning reports from June 19 through July 4. All information will be held confidential.

Please note that I will need a Sundry Report describing the current mechanical condition and status of the well for our file. A.A.C. R12-7-125 also requires the operator to give the Commission (i.e. this office) at least 10 days' written notice detailing the proposed activity before re-entering any temporarily abandoned well.

Let me know if I may be of further assistance

Sincerely,

Steven L. Rauzi

Oil & Gas Program Administrator

Steven C. Rais

2

MILNE POINT

BP Expl (Alaska) Inc. "Milne Point Unit" F-29
6-13M-10E UM,Fr SE cor 1881'N 2678'W(Surface)
25-14N-9E UM,Fr SE cor 3155'N 4348'W(est.BHL)
50-029-22688 S-07/02/96(Nabora Drlg #22E)
Directional Map:AL-4
7??? Drilling, no details.

NTAKUK
**ARCO Alaska, Inc. "West Niakuk" 2 Directional
36-12N-15E UM,Fr SE cor 1258'N 1112'W(Surface)
22-12N-15E UM,Fr SE cor 2519'N 2909'W(est top prod
20ne) Map:AL-5 (EXT)
Piled for permit on 5/16/96.

BP Expl (Alaska) Inc. "Niakuk" NK-28 50-029-22678 36-12N-15E UM, Fr SE cor 1258'N 1112'W(Surface) 22-12N-15E UM, Fr NW cor 2097'S 1677'E(est.BHL) S-06/04/96(Pool #7) Directional Map:AL-5 ???? Drilling, no details.

PRUDHOE BAY

ARCO Alaska Inc. "Prudhoe Bay Unit" 05-03B Map:AL-5
32-11N-15E UM, Fr SE cor 2438'N 4134'W(Surface)
5-10N-15E UM, Fr NW cor 1178'S 4188'E(BHL)
5-10N-15E UM, Fr NE cor 744'S 274'W(BHL-RD#1)
5-10N-15E UM, Fr SE cor 4750'N 301'W(BHL-RD#2)
13-3/8C.2715 9-5/8W.???? ?C.???? 50-029-20147-02
(Nabors #2ES) Rsm-4pm,5/23/93 Rig rel-6/20/93
(Rowan Drlg #35) S-10/21/74 Rig rel-12/8/74
Rsm-06/24/96(Doyon Drlg Co #9) Directional
11601 Resumed 6/24/96 for redrill.

ARCO Alaska Inc. "Prudhoe Bay Unit" 15-44 Map:AL-4
22-11N-14E UM, Pr SE cor 4735'N 5178'W(Surface)
15-11N-14E UM, Pr SE cor 2297'N 2375'W(est.EHL)
50-029-22683 S-06/21/96(Doyon Drig Co #14)
Directional
7777 Drilling, no details.

ARCO Alaska Inc. "Prudhoe Bay Unit" 15-45 Map:AL-4 22-11N-14E UM, Fr SE cor 4749'N 5180'W(Surface) 16-11N-14E UM, Fr SE cor 3741'N 2108'W(EHL) 7c.???? 50-029-22671 S-04/08/96(Doyon Drlg #14) Directional Status:OIL-05/04/96 11060 TVD8748 Completed oil wall 5/4/96.

BP Expl (Alaska) Inc. "Prudhoe Bay Unit" A-16A 35-11N-13E UM, Fr NE cor 3016'S 1014'W(Surface) 2-10N-13E UM, Fr NW cor 659'S 87'E(BHL) 2-10N-13E UM, Fr SE cor 2945'N 4146'W(est.EHL-RD) 13-3/8c.2698 9-5/8c.10503 7c.11558 50-029-20521-01 (Nabors Drlg #18E) S-11/7/80 Rig rel-12/22/80 Ram-07/09/96 (Nabors Drlg #18E) Directional 11558 Resumed 7/9/96 for redrill. Map:AL-4

BP Expl (Alaska) Inc. "Prudhoe Bay Unit" B-02A
31-11N-14E UM,Fr NE cor 931'S 1598'W(Surface)
32-11N-14E UM,Fr NW cor 1980'S 1980'E(BHL)
32-11N-14E UM,Fr SE cor 3497'N 391'W(est.BHL-RD)
20c.2307 13-3/8c.4626 50-029-20066-01 Directional
(Brinkerhoff Nat.110 #36) S-apx.4/9/70 Comp-6/5/70
Rsm-07/01/96 (Doyon Drlg Co #16) Map:AL-4
10755 Resumed 7/1/96 for redrill.

BP Expl (Alaska) Inc. "Frudhoe Bay Unit" F-34A 2-11N-13E UM, Fr NW cor 2133'S 2412'E(Surface) 35-12N-13E UM, Fr NE cor 3986'S 704'W(BHL) 35-12N-13E UM, Fr SE cor 3408'N 2458'W(est.BHL-RD) 20c.110 13-3/8c.2089 9-5/8W.??? ?c.????? Map:AL-4 50-029-21980-01 Rsm-06/17/96(Nabors Drlg #18E) (Nabors Drlg #18E) S-4am, 10/7/89 Rig rel-10/23/89 Directional 10555 RD????? Redrilled, no details. Released rig

€,3

7/9/96.

BP Expl (Alaska) Inc. "Prudhoe Bay Unit" J-11A
9-11N-13E UM, Fr NE cor 650'S 804'W(Surface)
8-11N-13E UM, Fr NE cor 351'S 431'W(BHL)
9-11N-13E UM, Fr NE cor 112'S 2983'W(est.BHL-RD)
13-3/8c.2715 9-5/8W.7??? ?c.???? 50-029-20462-01
(Nabors Drlg #18E) S-6/19/80 Rig rel-7/12/80
R8m-06/12/96(Nabors Drlg #28E) Directional
11045 RD777?? Redrilled, no details. Released rig
7/6/96. Map:AL-4

Munger Oilogram, Page 8
July 11, 1996

BP Expl (Alaska) Inc. "Prudhoe Bay Unit" J-20A 9-11N-13E UM, Fr NE cor 1215'S 802'W(Surface) 14-11N-13E UM, Fr NE cor 438'S 5262'W(BHL) 11-11N-13E UM, Fr NE cor 4138'S 4298'W(est.BHL-RD) 20c.110 13-3/8c.2978 9-5/8c.11152 7c.12250 50-029-21716-01 Rsm-07/09/96 (Nabors Drlg #2ES) (Alaska United #2) S-3am,4/21/87 Rig rel-5/9/87 Directional Map:AL-4 12250 Pg12203 Resumed 7/9/96 for redrill.

BP Expl (Alaska) Inc. "Prudhoe Bay Unit" P-20A
31-11N-13E UM, Fr NW cor 2990'S 2038'E(Surface)
01-10N-12E UM, Fr NE cor 934'S 4200'W(BHL)
01-10N-12E UM, Fr NE cor 485'S 4048'W(BHL-RD)
20c.110 10-3/4c.2711 7-5/8W.77?? ?c.????? Map:AL-4
50-029-22089-01 Rsm-02/03/96(Nabors Drlg #2ES)
(Alaska United #2) S-11am,9/14/90 Rig rel-10/8/90
Directional Status:OIL-04/04/96
12780 RD12681 Recompleted oil well 4/4/96.

BP Expl (Alaska) Inc. "Prudhoe Bay Unit" Q-04A
16-IN-13E UM, Fr SE cor 4856'N 839'W(Surface)
9-11N-13E UM, Fr SE cor 1709'N 927'W(BHL)
9-I1N-13E UM, Fr SE cor 1710'N 2944'W(est BHL-RD)
13-3/8c.2675 9-5/8W.???? 7c.????? 50-029-20340-01
(Nabors Drlg #18E) S-11/14/78 Rig rel-12/13/78
Rsm-05/01/96(Nabors Drlg #2ES) Directional
10870 TVD9003 Recompleted oil well 5/22/96.
Map:AL-4 Status:OIL-05/22/96

OTHER MESTERN STATES

HUNT

"Petrosun E&P Inc. "New Mexico & Arizona Land Co" 15-1

15-14N-25E,Fr NE cor 1445'S 1050'W 02-001-20306

8-5/8c.610 5-1/2c.1400aprx elev:5552'GR Map:AZ

S-pm-06/17/96(United Drlg Inc.) 3800'-est.td

3650 TD. Drilled. Logged. Showed potential for
methane gas production. Cmtd 5-1/2" csg at around

1400'. Plan to move in completion rig to perf and
test a zone 1200-1230'. (NFW)

ST JOHNS
**Ridgeway Arizona Oil Corp "State" 10-1 02-001-20303
10-11N-29E,Pr NE cor 1660'S 1660'W elev:6654'GR
State lease 13-53801 (Aztec Well Service) Map:AZ
2485'-est.td (EXT)
Hope to start soon.

AN SIMON

*Arzon Corp. "Arzon State" 1 02-003-20009 Map:AZ

27-13S-30E,Fr NW cor 660'S 660'E elev:3600'GE

9-5/8c.530aprx ?c.4064 S-07/15/95(Norton Drlg Co)

State Lease #13-100203 9900'-est.td (NFW)

8974 Reentered hole in late September. Tested.

Suspended. Evaluating.

### HURRICANE CLIFF

*Premco Kestern, Inc. "Mohave County" 1-10 Map:AZ

10-41N-11W,Fr SE COT 2353'N 510'W 02-015-20029

18c.75 8-5/8c.1050aprx (Federal Lease #A-21068)

elev:3090'GR 8500'-est.td S-11/30/95 (NFW)

1050 Cmtd 8-5/8" csg at aprx.1050'. Temporarily suspended.

STATE OF NEVADA

CHURCHILL COUNTY

Brady Power Partners "1" 27-1 27-001-90248 Map:NV
1-22N-26E,SW-1/4 SW-1/4 (Welch & Howell Drlg #11)
5650'-est.td
plan to spud around 7/15/96.

Brady Power Partners "1" 27A-1 27-001-90249 Map:NV 1-22N-26B, SW-1/4 SW-1/4 5650'-est.td Issued permit #438 on 6/21/96.

INDEPENDENCE VALLEY

*Foreland Corp. "Dead Man's Creek" 44-13 Map:NV

*Foreland Corp. "Dead Man's Creek" 42-13 Map:NV

13-39N-65E,Fr SE cor 660'N 870'W 27-007-05228

5-1/2c.8898 (Colorado Well Service Inc) (NFW)

Originally drld to 10900'. Perf'd and tested

within 8300-8780'. Plugged and abandoned 2/16/83.

(Rio Grande Drlg #6) S-aprx.8/20/82 Rel-2/16/83

12,000'-est.td elev:5828'GR

10900 Shut i:

#### PETROLEUM INFORMATION ROCKY MOUNTAIN REGION REPORT **SECTION VI - 07/10/96**

PAGE 3

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**DRILLING PROGRESS** INITIAL CLASS: WF = NEW FIELD WILDCAT; WD = DEEPER POOL WILDCAT; WS = SHALLOWER POOL WILDCAT; WP = NEW POOL WILDCAT; WO =

WILDCAT OUTPOST; D=DEVELOPMENT. DENOTES NEW INFORMATION ADDED THIS WEEK LDIR - LAST DATE INFORMATION REPORTED OR CONFIRMED.

DENOTES A FINAL STATUS HAS BEEN ADDED TO THE WELL.

#### **ARIZONA**

#### **APACHE COUNTY**

2-11N-29E RIDGEWAY ARIZONA OIL SE NW 2-1 RIDGEWAY STATE 1660 FNL 1660 FWL API 02-001-20305

10-11N-29E

1660 FNL 1660 FEL

SW NE

SE NW

UNNAMED; PERMIT #893; 2465 FORT APACHE, (FR 10/20/95FM) OPER ADD: 1080 700 4TH AVE SW, CALGARY ALB T2P 3J4, PHONE (800) 347-0294; EL: 6710 GR; LOCATION DATA: 1/2 E FORT APACHE CO2 DISC 3-11N-29E UNNAMED 8 1/2 MI SE ST JOHNS, AZ:

WO UNNAMED; PERMIT #891; 2485 FORT APACHE, (FR 10/20/95FM) OPER ADD: 1080 700 4TH AVE SW, CALGARY ALB T2P 3J4, PHONE (800) 347-0294; EL: 6654 GR; LOCATION DATA: 1/3 MI S FORT APACHE CO2 DISC SE

CONTR: AZTEC WELL SRVCG: LOC;

LOC;

RIDGEWAY ARIZONA OIL

10-1 RIDGEWAY STATE

API 02-001-20303

LOC;

11-11N-29E RIDGEWAY ARIZONA OIL 11-1 RIDGEWAY STATE SE NW API 02-001-20304

UNNAMED; PERMIT #892; 2680 FORT APACHE, (FR 10/20/95FM) OPER ADD: 1080 700 4TH AVE SW. CALGARY ALB T2P 3J4. PHONE (800) 347-0294; EL: 6824 GR; LOCATION DATA: 1/3 MI SE FORT APACHE CO2 DISC

1775 FNL 1660 FWL 3-11N-29E UNNAMED 10 MI SE ST JOHNS, AZ;

3-11N-29E UNNAMED 9 1/2 MI SE ST JOHNS, AZ;

RIDGEWAY ARIZONA OIL NE SW 1A RIDGEWAY PLATEAU CATTLE CO

22-1X RIDGEWAY STATE

1-10 MOHAVE COUNTY

API 02-015-20029

WILDCAT; PERMIT #883; 220 SAN ANDRES, (FR 12/08/94FM) OPER ADD: 15-12N-29E 1080-700 4TH AVE SW. CALGARY, AB, CD, T2P3J-0004 PHONE (800) 347-0294; EL: 6377 KB: LOCATION DATA: 51 MI S NAVAJO SPRINGS 2983 FNL 3583 FEL FLD(COCONINO) 59 FT FROM POSS GAS DISC 7 MI SE ST JOHNS, AZ;

CONTR: SALAZAR DRLG; SPUD: 11/26/94, DRLG COMMENTS: DRLD WITH CO2 FROM DISCOVERY WELL, MAY USE THIS WELL AS A DISPOSAL PI 02-001-20298 WELL IN THE FUTURE. 220 TD, (TD REACHED: 11/27/94); ... 220 TD, SI(WOO) (LDIR 07/03/96) 22-12N-29E RIDGEWAY ARIZONA OIL

1363 FNL 1713 FWL API 02-001-20301

WO UNNAMED; PERMIT #888; 2300 FORT APACHE. (FR 08/28/95FM) OPER ADD: 1080-700 4TH AVE SW. CALGARY, AB. 00T2R-03J4 PHONE (505) 327-1376; EL: 6393 GR; LOCATION DATA: 1 MI S CO2 DISCOVERY-UNNAMED 15-12N-29E FLD 8 MI SE ST JOHNS, AZ; TO REPLACE JUNKED HOLE #1; WELL ID CHANGES: WELL NAME CHGD FROM STATE FTG CHGD FROM 1383 FNL 1723 FWL

CONTR: SMITH WAYNE DRLG, RIG #1;LOC;

35-12N-29E RIDGEWAY ARIZONA OIL 35-1 RIDGEWAY STATE 1660 FSL 1660 FWL API 02-001-20302

UNNAMED; PERMIT #890: 2500 FORT APACHE, (FR 10/20/95FM) OPER ADD: 1080 700 4TH AVE SW, CALGARY ALB T2P 3J4, PHONE (800) 347-0294; EL: 6689 GR: LOCATION DATA: 3/4 MI NE FORT APACHE CO2 DISC SE 3-11N-29E UNNAMED 10 1/2 MI SE ST JOHNS, AZ;

CONTR: AZTEC WELL SRVCG; L

PETROSUN E&P 15-14N-25E 15-1 NEW MEXICO & ARIZONA SE NE 1445 FNL 1050 FEL LAND CO API 02-001-20306

WILDCAT; PERMIT #894; 3800 PRECAMBRIAN, (FR 06/10/96FM) OPER ADD: 6836 E LUDLOW, SCOTTSDALE, AZ, 85254 PHONE (602) 998-9771; EL: 5552 GR; LOCATION DATA: 30 MI S-SW PINTA DOME

FLD(COCONINO)ABND 1 1/2 MI SW HUNT, NM; PRIMARY TARGET: DEVONIAN; CONTR: UNITED DRLG, RIG #3;SPUD: 06/17/96, CSG: 5 1/2 @ 1342; DST # 1 (SUPAI) 1034-1062, OP 15 MIN, SI 30 MIN, OP 30 MIN, SI 1 HR, REC: 200 FT MDYWTR, 305 FT WTR, IFP 51, FFP 167, IFP 178, FFP 308, ISIP 388, FSIP 391, IHP 547; DRLG COMMENTS: OPR REPORTS SMALL PRESSURE IN SUPAI @ 1202-1232 BLEW SOME MUD & GAS(100% METHANE). SHOWS: 1034-1062 OIL 3648 TD, (TD REACHED: 07/ 04/96); ... 3648 TD, WOCT (LDIR

MOHAVE COUNTY 10-41N-11W PREMCO WESTERN

2353 FSL 510 FEL

NE SE

WILDCAT; 8500 CAMBRIAN. (FR 09/11/95FM) OPER ADD: BOX 496568. GARLAND, TX. 74049-6568 PHONE (214) 341-7010; EL: 3090 GR; LOCATION DATA: 24 MI S-SW VIRGIN FLD(UTAH/INACHOE) 9 MI SE ST GEORGE, UT: PLAN SPUD NOV-1-1995:

SPUD: 11/30/95 CSG: 18 @ 80; DRLG COMMENTS: LAYNE WESTERN CO DRLD TO SURF CSG POINT STARTING 1/29/96 FROM 80 FT. GARY DRLG TO IC 20157000195 DRILL 1100-2800. . . . @ 1100, WOE (LDIR 06/26/96)

ARIZONA GEOLOGICAL W. CONGRESS, SUITE 100. TUCSON, ASSURVEY

FAX
State of Arizona
Arizona Geological Survey
416 W. Congress, Suite 100
Tueston, Arizona 35701
(520) 770-3500



Date: 7-10-96

Number of pages including cover sheet:

3

Leavey O., Fellows Director and State General

Phil	Gardner	
Phone:		
Fax phone: 5	70-333-5469	2

From:	teve Rauzi	
Phone:	(520) 770-3500	
Fax phone:	(520) 770-3505	

REMARKS: Urgent For your review Reply ASAP Please comment

Petrn of to drill for Pet Seum 15-1 NIMAL

(1445' FNL & 1050' FEL Sec 15-14a-25e)

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The Arizona Republic

Tuesday, July 9, 1996

# Non-Navajo gas well doing well, firm says

By Ed Foster Staff writer

A wildcat gas well drilled between Concho and St. Johns in Apache County has come in at commercial quantities, the president of a Scottsdale-based oil company says.

Gordon LeBlanc Jr., who heads PetroSun Exploration and Production Co., described the well as "pretty significant."

"To my knowledge, this will be the first natural-gas well in the state of Arizona not within the Four Corners area," he said.

State geologist Larry Fellows con-

firmed that the well had struck gas. He also said he had no knowledge of any other well outside the Navajo Reservation.

Oil and gas are produced in the northeastern corner of the state on the Navajo Reservation. But those wells are in decline, according to Fellows.

LeBlanc said a second well will be drilled within 60 days at the St. Johns-Concho site to confirm the existence of a commercial field.

"We have leases on 30,000 acres there," he said Friday.

LeBlanc said drillers encountered a gas-bearing sand formation from

1,202 feet to 1,232 feet. It also found two other gas formations and one indication of oil, but not in commercial quantities.

The well was drilled to 3,648 feet.
Wells also are being drilled about
20 miles east of LeBlanc's, near the
New Mexico line. They will produce
carbon dioxide.

Phil Gardner, executive director of the Apache County Economic Security Corp., an economic-development group, said the carbon dioxide has been sold to a Texas oil-field operator. It will be used to extract hard-toreach oil in that field.

file 894

E CONTROLL

7-16-96 Call Gordon & get 735xs cont used to cont 51/2" C5g. He reports Schlumberger quick look across zone showed 20% with saturation.

(333-4139-5pringwille | 337-4413-54. Johns) 21-1-

Donna Whitins, White Mtn Independent. called to discuss PetroSan well. Phil Gardner informed her I said that methane at shallow depth was significant + that finding gas outside hown field was significant. I agreed those were true. Also advised Donna I considered the well to have taken a Strong Kick, which was continted by shuting in the BOP, of that the well was immediately controlled. The stoms kick of gas registered as 100% methane by the mudleyets chromatograph equipment. Now-two additional pieces of information are necessary before drawing any first conclusions about the commerciallity of the well. Namely (1) Rate and (2) Physone from which a draw-down test can be made and an approximation of sas potential. Used avalogy of a tire being punctual by a big Knife vs. a small pin. Hopefully the test will be like a small pin in a tike, indicating a large reserve + hate of gas. She noted my story was a different take on the Story as reported in the AZ. Rep. I advised that as a State houlafor it was my duty to exercise caution at this print until all of the data is in but that it was encouraging at this print, encouring enough for the Company drilling the well to spend the added money to run pipe of perforate to feet. [ her wicke, Roser Holland, Kanals, 15 seolosist]

7-17-96 Call + request copy of article from Downa Whiting. She will send.
7-18-96 Paul Slayton: paged for 1/2 well, P+a 18 wells @ DBK under plessuk. has
doubted post by working over + putting pump on 24. Rule to either produce
or plus detrimental because of loss of sood wells. I I = 5ke]

8-5-96 Gordon calls for into an Grimmutt (Phtt (31-15m-260). Has jett stated blow out zure. Blew out real good. Still some brine cott in Form, possibly several thousand bursels from drilling. Sambbed it back after complet from in aum. 600 psi bursels from drilling. Sambbed it back after complet from in aum. 600 psi bursels from psi ftp. Will set gas analysis. Further fest of DST zue@ 1030' town correlates into Grimm well. Will be in in next Complet of days.

5. 200**223** 

المعصص [

7-5-96: Ron Foster, Atizona Republic: called to set additional information about 15-1 NMAL after receiving phone call from Sordon Le Blanc. LDF discusses general potential of aka and need for well test and confirmation dtilling before commercial aspect of area is determined.

7-8-96: Kevon Smith called to verify report by LeBlanc that Well blew out
Kelly 70 some feet to a pipe tack. Advised that all I could offer
was that Mud los reports well blew out @ 5:05 am and was pute
methane. No mention of Kelly being blown 70', which would have ruptuled
the retary hose. Kevon also reported 5½" CSS Set @ 1842'

Phil Gather called to verify sas reports about 15-1 Nurth. Advise
him that pipe was tun to determine tates + potential Vol via flow tests.

7-10-96: Bob Gavlin, Phoenix called to discuss AZ Republic Story about the Petrosan well. Give him Le Blanc phone #. Informed une he had drilled some wells near Snowflake in the 1960's Ron Hanna, Phoenix, called about AZ Republic Story. = be Blanc plane #. had lessed land in Holbbrok - Chambet aka. No kestal of Petrosan as publically traded company.

7-18-96 IS: Looking for memo from Proudfoot to ... about decision to P+A sumatra 1-17 santa Fe. Est. 130' stoss pay w/n 50' net pay. @ n 3000' as potential for n 16cf/160 ac but lack of market for sas pends to decision to P+A (i.e. conv. to ww).

Advised anhydrife + sypsum plus dissolution of salt caused mud to firth 4: no sample becarry 1202-32'. Nell blew mud over chown block + botary bushing up 15' into the pipe basket. Lack of sample become caused confusion on parameter for neutron/density closs over plut. However, correlated zone to a sand in the Pan Am well to the santh and noted the lack of sample become lito-go in the webb well to the north.

Expects bhp of 400-450th, DST 1034'-1062' had SIP of 390# (433 prift) thad C1 + C2 in grante wash at first drilling bleak below hard zone.

Set 51/2" CSG, Shoe@ 1368', FC@ 1321' calc top cont by caliper volume determination@ 1045' 1.e. 157' over + 136' below potential gas zone@ 1202'-1232'.

noted Tour Hansen, TEP inquired about alternate fixel for plant. PetroSun Seismic from Pan Am to 15-1 to webb over to Arkla wells.

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6-12-96 Gordon LeBlanc calls:

Moving in equipment, have to remove all blow sand off location so expect to delay spud to either Sat. Afternoon or Sunday Morning.

6-16-96 Been howling with all day. Expect to speed by Monday afternoon.

6-28-96 Gorder Le Blanc called - 4:30 pm: @ 2600' + dby. had show of old up the bole. expect to be logging Monely.

1-1-96 Called sig & talk of John Templon: @ 3235' + dels & 5-8'/min in flem + save (5 camp up bole = had.

057 @ 1034-1062' in Supai Same flurescence but no free il in DST. little filtrate + rathole fluid ceas all.

7-3-96 Gotdon teports dtls@ 3632' + will T.D @ 3650'
Top starte wash@ 3536'
Schlumberget on way + plan to log between noon + 1:00pm
Will look closely at sas (methane) kick@ D26'
3 545 kicks in Supai
Sutface owners desire to use well tot water.
Minum cont plus across upper gas kick 2me
100' cont plus across shre of surface csg.

7-5-96 Gotdon reports that 5" CSS + contro (Halliburton) on location

@ 6:00 am 7-4-16 + 5" CSS control in hole 54 9:30 am. Released

ris @ 10:30 am. John Templin heading back to Louisiana today.

plan to shoot seismic, tied sol 4- sand in Pan Am well. John

to call for into on seologic material on area. Plan to bring

pulling unit over and test sas sand within the next 45

pulling united Ris to be stacked on 15-1 location for next

leads. United Ris to be stacked on 15-1 location bibliosraphy

to Templin in Shreveport LA

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Rocky Mountain Region Report Section I

7-3-96

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# Magnum Completes Acquisition of Panoma Properties

AGNUM PETROLEUM Inc, Irving, Texas has closed the previously announced (PI 5-31-96, This Week) purchase of approximately 500 natural gas wells and 427 miles of a gas gathering pipeline system (the "Panoma Properties") from Meridian Oil Inc.

The net purchase price after certain adjustments was approximately \$35 million for all of Meridian's interests in certain gas wells and a gas gathering system located in the Panhandle of Texas and western Oklahoma.

Current daily production volumes from the wells is approximately 14 million cu ft of gas per day with total delivery—including third-party gas purchased by the gathering system—of nearly 19 million cu ft daily.

The existing wells and gas gathering system are in three fields—West

# Remote Eastern Arizona Wildcat Below 3000 Ft

Petrosun Exploration & Production is drilling below 3000 ft toward an objective of 3800 ft in Precambrian at a remote wildcat a mile and a half southwest of Hunt in eastern Arizona.

The 15-1 New Mexico & Arizona Land Co, se ne 15-14n-25e, Apache County, is being drilled by United Drilling's Rig #3 primarily to evaluate Devonian zones (PI 6-11-96). It's about 27 miles northwest of one of two shut-in discoveries completed by

Ridgeway Arizona Oil Co two years ago near St. Johns. Ridgeway's 1 Ridgeway/Canstar-Plateau Cattle Co, senw 15-12n-29e, flowed carbon dioxide, helium and nitrogen from Fort Apache (Permian) at 1410-79 ft and 1680-1720 ft.

The remote venture is approximately 30 miles south and slightly west of the Pinta Dome/Navajo Springs field area, where nonflammable, helium-bearing gas was produced from the Permian Coconino sandstone.

Panhandle, East Panhandle and the South Erick—all located in Gray, Wheeler, Collingsworth and Donley counties, Texas, and Beckham and Greer counties, Oklahoma. Magnum's wholly owned subsidiary, Gruy Petroleum Management Co, has become the operator of all wells, the gas gathering pipeline system and associated assets. "We're currently in discussion with Phillips Petroleum for a possible trade of our acreage. We're also in discussion with other companies to farm out our interest in Sunfish."

#### Shell to sell

j i saumani

Shell Oil Co., whose involvement with Cook Inlet production goes back to the 1960s, has put its statewide producing properties up for sale, including Platforms A and C in Middle Ground Shoal field, an onshore processing facility near Nikiski, interest in Beluga River gas field on the west side of Cook Inlet, and a 0.1377% interest in Prudhoe Bay field.

In April, the Municipality of Anchorage made a \$12.5 million down payment toward purchase of Shell's one-third interest in Beluga River gas field. The total bid price for Shell's interest is \$125.1 million. A Municipality spokesman said that current contracts for gas expire in 2005, and acquisition of Shell's interest in Beluga River gas field would assure Municipality Light & Power-the Municipalityowned utility company—a long-term supply of gas while lowering costs to customers and stabilizing or reducing electricity rates for 30 years.

Beluga River field has produced 533.1 bcf of gas since discovery in December 1962 by Standard Oil Co. of California, now Chevron USA Inc. Estimated remaining reserves published by the Department of Natural Resources' Division of Oil & Gas are 488 bcf.

A Shell spokesman said the company has received offers on its Middle Ground Shoal production, including Platforms A and C, and the onshore processing facility near Nikiski but is deferring action while focusing on completion of the Beluga River sale.

#### Marathon exploring

Marathon Oil Co. opened an exploratory campaign targeting gas on the Kenai Cook Inlet estimated remaining proved developed and undeveloped reserves are 133 million bbl of oil and 2.842 tcf of gas.

Peninsula in late February, spudding the 1 Corea Creek Federal, in 12-1n-13w, about three miles southwest of Clam Gulch. The directional well was programmed to bottom approximately 3,000 ft northwest of the surface location.

According to field sources, the well went to 9,000 ft. Testing began with no release of results. The surface drill site is about 1½ miles southwest of the 1 Falls Creek Unit, completed in June 1961 by Standard of California, now Chevron, as the discovery well for Falls Creek gas field.

Standard in a joint venture with Richfield Oil Corp. took the well to 13,789 ft, plugging back to 8,594 ft for completion in the Tyonek formation. Initial production was 1.95 MMcfd of dry gas. The well proved the first and only completion for the field, which has remained shut in since completion of the discovery well.

#### Stewart to drill

Stewart Petroleum Co., Anchorage, before yearend plans to drill a deep exploratory well in the Cape Starich area of the Kenai Peninsula some 25 miles southwest of Falls Creek gas field and about 10 miles northwest of North Fork gas field. The high angle, long reach well will be drilled from an onshore pad to bottom under Cook Inlet waters.

The proposed measured depth is 22,000 ft.

North Fork gas field was a December 1965 discovery by Standard Oil Co. of California's 41-35 North Fork Unit, in 35-4s-14w. The well was completed from redrilled depth of 10,859 ft after bottoming at total depth of 12,812 ft. Initial production was 3.37 MMcfd of gas from the Tyonek formation. The well has been shut in since completion.

#### Reserves, production

Since discovery of Swanson River field 39 years ago, the Cook Inlet basin's seven oil fields have produced 1.21 billion bbl of oil and 3.1 tcf of gas. Eight gas fields—Beluga River, Ivan River, Kenai, Lewis River, North Cook Inlet, Pretty Creek, Sterling, and Stump Lake—have produced 4.0 tcf of gas. Four more gas fields—Birch Hill, Falls Creek, North Fork, and West Foreland—have been shut in since discovery.

Estimated remaining reserves as published by the DNR's Division of Oil & Gas are 133 million bbl of oil, including 108 million bbl proven and developed and 25 million bbl proven but undeveloped or shut-in. Estimated gas reserves are 2,842 bcf, including 2,784 proven and developed and 58 proven but undeveloped or shut-in.

#### Cook inlet leasing

A pair of sales—one state and another federal—has been proposed.

The state's Sale 85A (Cook Inlet Exempt) includes 226 tracts with an area of about 1.1 million acres. Upland tracts are generally located on the western side of the Kenai Peninsula between Pt. Possession and Anchor Point and Homer communities and on the west side of Cook Inlet between the Beluga River and Tuxedni Bay.

The proposed sale area also consists of state owned tide and submerged lands in central Cook Inlet and Redoubt, Trading, Tuxedni, and Chicaloon Bays. The sale

is tentatively scheduled for Dec. 17, 1996, in Anchorage.

The U.S. Interior Department is deciding whether to hold OCS Sale 149, originally scheduled for June. The proposed sale is to include 385 blocks in Lower Cook Inlet covering approximately 1.8 million acres in offshore waters of the Iliamna, Seldovia, Mt. Katmai, Afognak, and Kenai areas.

A footnote to work on the Kenai Peninsula is an innovative leak detection system that Unocal successfully tested in Swanson River field.

Last year, a company team developed a plan to help minimize spills in the field. The team hired dogs—labradors and golden retrievers—to sniff for a non-toxic odorant—Esso's Tekscent—injected into the pipelines. The dogs proved successful in detecting leaks in weather from 40° below zero to 100° F. and leaks in up to 3 ft of snow or pipelines buried to depths of 12 ft.

Approximately 18 miles of Swanson River pipelines were inspected during a 2 week period. The dogs found two faulty valve box seals, which were replaced. The company is considering bringing the dogs back this summer but also is using an infrared system.

### **ARIZONA**

Petrosun Exploration & Production, Scottsdale, Ariz., staked a rank wildcat to Devonian in southern Apache County.

The 1 New Mexico & Arizona Land Co., in 15-14n-25e, is 30 miles south of Pinta Dome and Navajo Springs fields, which produced non-flammable, helium bearing gas from Permian Coconino sandstone, Petroleum Information reported.

The Petrosun location, projected to 3,800 ft, is 27 miles northwest of carbon dioxide, helium, and nitrogen discoveries completed by Ridgeway Arizona Oil Co. in 1994 (OGJ, Sept. 5, 1994, p. 42).

MEMORANDUM TO FILE

DATE:

June 24, 1996

FROM:

Steven L. Rauzi

, Oil and Gas Program Administrator

SUBJECT: CIRCULATION OF CEMENT ON SURFACE CASING & BOP TEST

Petrosun 15-1 NMAL, Permit #894

SE NE Sec. 15, T. 14 N., R. 25 E., Apache County

I witnessed Haliburton circulate cement on the 8 5/8" casing set to 606 feet on June 20. The blind rams, pipe rams, and manifold valves tested good at 1400 psi on June 21.

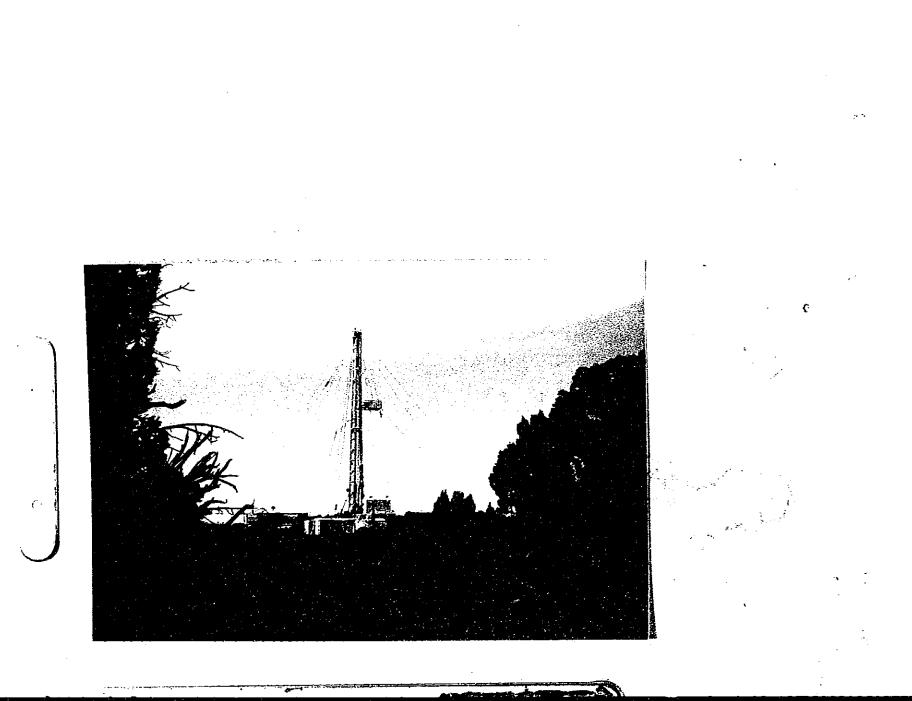
State of Arizona
Arizona Geological Survey
416 W. Congress, Suite 100
Tucson, Arizona 85701

Photo

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**:** 

PethoSun 15-1 NMAL (894)

Se ne 15-14n-25e, Apache Co., Atizma

drls 12'14" Surface hole to 610'

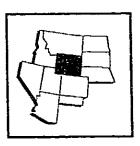
6-18-96



Entres)

# **ROCKY MOUNTAIN**

### **REGION REPORT**



WYOMING EDITION

Vol. 69, No. 119 6-18-96

#### Petrosun Spuds Remote Eastern Arizona Wildcat

Petrosun Exploration & Production, with United Drilling's Rig#3 on site, has begun drilling operations at a remote 3800-ft test to Precambrian a mile and a half southwest of Hunt in eastern Arizona.

The Apache County venture, the 15-1 New Mexico & Arizona Land Co in se ne 15-14n-25e, is designed primarily to evaluate Devonian zones (PI 6-11-96). It's about 27 miles northwest of one of two shut-in discoveries completed by Ridgeway Arizona Oil Co two years ago near St. Johns. Ridgeway's 1 Ridgeway/Canstar-Plateau Cattle Co, se nw 15-12n-29e, flowed carbon dioxide, helium and nitrogen from Fort Apache (Permian) at 1410-79 ft and 1680-1720 ft.

### Petral Completes Southern Paradox Basin Ismay Gas Discovery

AS FLOWED at the rate of 2,380,000 cu ft per day, with 30 bbls of 52° condensate daily, at a southern Paradox Basin exploratory test completed by Denver-based Petral Exploration LL Capproximately 17 miles east-southeast of Blanding in southeastern Utah.

The 1 Knockdhu-Federal, nw ne 33-37s-25e, eastern San Juan County, was directionally drilled to a total measured depth of 6047 ft at a bottom-hole location in ne nw of the same section. Flow was measured on

a 23/64-inch choke with a flowing tubing pressure of 465 psi. It's producing from an Upper Ismay reef mound perforated at 5684-5702, 5708-22, 5726-30 and 5736-40 ft.

The discovery, which has been shut in awaiting a pipeline connection, was drilled by Four Corners Drilling's Rig #7 three quarters of a mile north-northwest of the north-westernmost producer in Little Nancy field, a northwest-southeast trending Ismay/Desert Creek pool (PI 3-8-96).

The drillsite is approximately 30 miles south and slightly west of the Pinta Dome/Navajo Springs field

area, where nonflammable, heliumbearing gas was produced from the Permian Coconino sandstone.

NEWSLETTER
DAILY ACTIVITY REPORT
WYOMING

SECTION I SECTION II



Petroleum Information® Corporation

P.O. Box 2612, Denver, CO 80201-2612, 303/595-7500 Copyright 1995 Petroleum Information Corporation BP Expl (Alaska) Inc. "Prudhoe Bay Unit" J-C7A
9-11N-13E UM,Fr NE cor 848'S 804'W(Surface)
4-11N-13E UM,Fr NE cor 486'S 232'W(BHL)
33-12N-13E UM,Fr NE cor 5145'S 1130'W(est.BHL-RD)
20c.110 13-3/8c.2670 9-5/8W.???? 7c.7??? Map:AL-4
50-029-20241-01 Rsm-05/23/96(Nabors Drlg #28E)
(Brinkerhoff-Nabors #26) S-7/25/77 Rig Rel-8/22/77
Directional
11610 RD????? Redrilled, no details. Released rig
6/12/96.

BP Expl (Alaska) Inc. "Prudhoe Bay Unit" J-11A 9-11N-13E UM, Fr NE cor 650'S 804'W(Surface) 8-11N-13E UM, Fr NE cor 351'S 431'W(BHL) 9-11N-13E UM, Fr NE cor 112'S 2983'W(est.BHL-RD) 13-3/8c.2715 9-5/8c.10031 7c.11040 50-029-20462-01 (Nabors Drlg #18E) S-6/19/80 Rig rel-7/12/80 (Nabors Drlg #28E) Directional Map:AL-4 11045 Issued permit #96-104 on 6/4/96 for redrill. Moving in equipment.

BP Expl (Alaska) Inc. "Prudhoe Bay Unit" J-20A 9-11N-13E UM, Fr NE cor 1215'S 802'W(Surface) 14-11N-13E UM, Fr NE cor 438'S 5262'W(BHL) 11-11N-13E UM, Fr NE cor 4138'S 4298'W(est.BHL-RD) 20c.110 13-3/8c.2978 9-5/8c.11152 7c.12250 50-029-21716-01 Directional Map:AL-4 (Alaska United #2) S-3am,4/21/87 Rig rel-5/9/87 12250 Pg12203 Issued permit #96-106 on 6/4/96 for redrill.

BP Expl (Alaska) Inc. "Prudhoe Bay Unit" 5-42 35-12N-12E UM, Pr SE cor 4181'N 4503'W(Surface) 35-12N-12E UM, Pr SE cor 3341'N 4271'W(2HL) ?c.????? 50-029-22662 Directional Map:AL-4 S-04/03/96(Nabors Drlg #28E) Status:OIL-05/13/96 10692 TVD8965 Completed oil well 5/13/96.

OTHER WESTERN STATES HUNT

E Transmine

STATE OF ARIZONA APACHE COUNTY

*Petrosun Expl & Prod Inc. "New Mexico and Arizona Land Co" 15-1 15-14N-25E,Fr NE cor 1445'S 1050'W 02-001-20306 (United Drlg Inc.) elev:5552'GR 3800'-est.td Issued permit #894 on 6/5/96. Moving in equipment. Plan to 8pud 6/15/96 or 6/16/96. Map:AZ (NFW)

<u>ST JOHNS</u>

**Ridgeway Arizona Oil Corp "State" 10-1 02-001-20303

10-11N-29E,Fr NE cor 1660'S 1660'W elev:6654'GR

State lease 13-53801 (Aztec Well Service) Map:AZ

2485'-est.td (EXT) Hope to start soon.

SAN SIMON

*Arzon Corp. "Arzon State" 1 02-003-20009 Map:AZ
27-135-30E,Pr NW cor 660'S 660'E elev:3600'GR
9-5/8c.530aprx ?c.4064 S-07/15/95(Norton Drlg Co)
State Lease #13-100203 9900'-est.td (NFW)
8974 Reentered hole in late September. Tested.
Suspended. Evaluating.

HURRICANE CLIFF MOHAVE COUNTY

*Premco Western, Inc. "Mohave County" 1-10 Map:AZ

10-41N-11W, Fr SE cor 2353'N 510'W 02-015-20029

18c.75 8-5/8c.1050aprx (Federal Lease #A-21068)

elev:3090'GR 8500'-est.td S-11/30/95 (NFW)

1050 Cmtd 8-5/8" csg at aprx.1050'. Temporarily suspended.

DIXIE VALLEY

Oxbow Genthermal Corp. "7" 82-7 27-001-90117-01

Oxbow Geothermal Corp. "7" 82-7 27-001-90117-01 13-3/8W.???? ?c.???? Directional Map:NV Rsm-04/03/96(VECO Drlg Co #10) Status:GEOTHERMAL 9830 RD9520 Redrilled to 9520', (corrected depth). Released rig 6/7/96. Recompleted geothermal producer.

Munger Oilogram, Page 9
Thursday, Ine 13, 1996
ELKO COUNT

**TNDEPENDENCE VALLEY

*Foreland Corp. "Dead Man's Creek" 44-13 Map:NV

13-39N-65E,Fr SE cor 660'N 870'W 27-007-05228

5-1/2c.8898 (Colorado Well Service Inc) (NFW)

Originally drld to 10900'. Perf'd and tested

within 8300-8780'. Plugged and abandoned 2/16/83.

(Rio Grande Drlg #6) S-aprx.8/20/82 Rel-2/16/83

12,000'-est.td elev:5828'GR

10900 Shut in.

Alpha EUREKA COUNTY
*Phillips Petroleum Co. *Alpha Strat* 1 (STRAT TEST)
27-25N-52E,Fr SW cor 2818'N 1898'E Map:NV
Location.

BLACKBURN

Petroleum Corp of Nevada "Blackburn" 21 Map:NV 7-27N-52E,Fr SE cor 1833'N 1456'W elev:5295'GR Location.

COAL VALLEY

*Eagle Exploration "Baseline Canyon" 2A 27-017-05222

21-1N-59E,Fr SW cor 1161'N 1317'E Map:NV (NFW)

100' north of the Company's "Baseline Canyon
Federal" #2, drld to 1875'. Hit water and
suspended 11/12/95. Pederal Lease N-41649

(VECO Drlg Co #10)

1875 Moving rig to location from Dixie Valley. (Note change in operator from Tide Petroleum Co LP.)

PIOCHE

*Hunt Oil Co of NV "USA" 1-30 elev:6606'GR Map:NV 30-1N-66E,Fr SE cor 2459'N 993'W (NFW) Location.

TRRANT

*Makoil, Inc. "Currant" 1 27-023-05265-61 Map:NV

26-10N-57E,Fr SW cor 658'N 1983'E elev:4892'GR

9-5/8c.421 7W.6700 5-1/2c.6950 Rsm-05/28/95 (NFW)

Originally comp 2/20/79 by Northwest Expl for 4

B/D oil, 15gravity, 0.1% cut from int 7038-7050'.

Perf'd 6856-6994' and tested 4/12/79 for 10-12

B/D oil, 15gravity. Directional

7800 RD7115 Shut in with 600 psi TP. Plan to frac at a later date.

ALLIGATOR RIDGE

*Pioneer Oil & Gas "M.S.U." 27-44 elev:6181'GR
27-23N-58E,Fr SE cor 330'N 660'W Map:NV (NFW)
Federal Lease N43815
Notice of staking 4/10/96.

NEWBERRY STATE OF OREGON DESCRIVES COUNTY CR Exploration "22" 23-22 36-017-90039 Directional 22-21S-12E, Pr NW cor 1500'S 400'E Lease #OR 45505 S-10/03/95 (Nabors Drlg USA #167) elev:6470'KB 9000'-est.td Map:OR 7777 Evaluating.

STATE OF WASHINGTON
CHEHALIS-SE
WNG-Jackson Prairie Gas Storage "8" SU69
8-12N-1W,Fr SE cor 715'N 2140'W 46-041-00172
2100'-est.td elev:525'GR (GAS STORAGE)
Permit #448 pending.

MORTON

*Hunt Oil Co. "HOC Clevinger" 1 46-041-00169 (NPW)

1-12N-4E,Fr SW cor 2279'E 2333'N 15,000'-est.td

elev:1125'GR

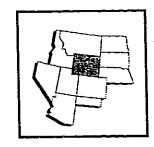
Re-issued permit.

*Hunt Oil Co. "State" 36-1 46-041-00176 (NFW) 36-13N-4E,Fr NW cor 1749'E 1100'S 15,000'-est.td elev:1168'GR Location.



# **ROCKY MOUNTAIN**

### **REGION REPORT**



WYOMING EDITION

Vol. 69, No. 114 6-11-96

### Remote Eastern Arizona Wildcat Projected to Precambrian

Petrosun Exploration & Production, Scottsdale, Arizona, has staked a remote 3800-ft test to basement a mile and a half southwest of the town of Huntin eastern Arizona's Apache County.

Primary objectives of the 15-1 New Mexico & Arizona Land Co, se ne 15-14n-25e, are Devonian sediments.

The wildcar will be drilled by a United Drilling rig on an 11,900-acre lease approximately 30 miles south and slightly west of the Pinta Dome! Navajo Springs field area. That area produced nonflammable, heliumbearing gas from the Permian Coconino sandstone.

The site is about 27 miles northwest of one of two shut-in discoveries completed by Ridgeway Arizona Oil Co in 1994 near St. Johns. Ridgeway's 1 Ridgeway/Canstar-Plateau Cattle Co, se nw 15-12n-29e, flowed carbon dioxide, helium and nitrogen from Fort Apache (Permian) at 1410-79 ft and 1680-1720 ft.

The closest previous drilling is three and a half miles west of the Petrosun venture, at a 2608-ft stratigraphic test drilled by Arkla Exploration in 1964 at the 3 NMA-Strat Test in nenw 18-14n-25e. Log tops at that well, measured from a 5480-ft kelly bushing elevation, include Supai at 736 ft and Fort Apache at 2031 ft. Arkla reported oil shows at 1342-62 ft, 1682-1710, 1870-90 and 2032-90

Pan American Petroleum in 1959

(Please see Arizona, Page 2)

# Wyoming Opens Drilling Window for Reduced Royalty Rates

HE WYOMING Board of Land Commissioners has established a 14-month "drilling window" with reduced royalty rates for discoveries drilled on primary term state leases.

From July 6, 1996, through September 30, 1997, a lease upon which wildcat (as defined by the Rules and

Regulations of the Wyoming Oil & Gas Conservation Commission, revised 8/92) is completed producing paying quantities of hydrocarbons will be assessed a royalty of 10 percent, down from the current rate of 16 2/3 percent. The lower royalty rate will

(Please see Window, Page 2)

4

NEWSLETTER
DAILY ACTIVITY REPORT
WYOMING

SECTION I SECTION II



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(Window, from Page 1)

7

apply only to production from wells embraced by the qualifying lease, and will be effective for as long as commercial production exists from those wells.

The 10 percent royalty rate is subject to termination with return to the 16 2/3 percent "issue" rate if a sixmonth average producer price of \$22/bbl for oil and \$2/MMcf of gas is exceeded.

A reduced royalty rate was one of numerous measures proposed by the board in January that were intended to stimulate leasing and drilling activity on state leases (PI 1-12-96). For further information, call the Wyoming Land Office at (307) 777-6643.

### Ritchie Schedules More Elbert County Colorado Exploration

ploration Inc has scheduled two new J sand wildcats in the southern Denver Julesburg Basin 2-5 miles northwest of Limon in eastern Colorado.

The I-42 Canyon Energy Inc-UPRC-South Blue, se ne 1-9s-57w, Elbert County, will be drilled to a depth of about 5175 ft nearly a mile south-southeast of J sand production in Bluebird field.

Three and a half miles to the northwest, Ritchie plans to drill the 23-22 Canyon Energy Inc-UPRC- Arikaree, se nw 23-8s-57w, a 5500-ft J sand test. This venture is two miles northwest of shut-in J sand production at Bluebird field. Both wildcars are under contract to Ashby Drilling.

Ritchie has drilled five other J sand tests in Elbert County in recent months (PI 6-3-96), but no details have been released. The company also has location staked for a 5850-ft J sand test at the 26-21 State-Beaver-Canyon Energy in ne nw 26-7s-58w, about 10 miles northwest of Bluebird field (PI 2-19-96). No activity has been reported at that site.

#### (Arizona, from Page 1)

drilled a 3680-ft Precambrian wildcat at the 1A New Mexico & Arizona Land Co, sese 12-13n-25e, about six miles south-southeast of the new Petrosun location. Log tops at that dry hole include Coconino at 203 ft, Supai 580, Fort Apache 1460, Pennsylvanian 2669 and Precambrian at 3634 ft. Kelly bushing elevation is 5882 ft. Pan American reported gas shows in a core cut in Fort Apache at 1788-1838 ft, but a drillstem test conducted between 1772 and 1838 ft recovered only 60 ft of mud.

### Pipe Set at Wildcat near Colorado/Wyoming Border

Denver Independent P&M Petroleum Management LLC has set production casing for a completion attempt at a wildcar on the northern flank of the Sand Wash Basin approximately 10 miles east of Hiawatha in northwestern Colorado.

The 1 Racetrack-State, in ne se of irregular section 17-12n-98w, northern Moffat County, was set up as an Almond (Mesaverde) test (PI 12-28-95) and drilled by Nabors Drilling USA's Rig #937 to a total depth of 10,682 ft. It's in a non-producing township four miles northeast of Shell Creek field, a shut-in, two-well Mancos/Mesaverde gas pool. Powder Wash field, about five miles to the east-southeast, produces gas from Fort Union and Lance.

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Avancos I

P.01

PetroSun Exploration + Production, Inc. NZ 15-1 Drillsite Directions

From Holbrook, AZ (I40)

Take 180 traveling scutheast to the Intersection of 180 & 180 A. Turn right/south on 180 A. Rig sign/ribbon will be on your right/wast a few hundred yards south of the intersection.

From ShowLaw, AZ (61)

Travel northeast towards Concho from
ShowLow on 61. Turn left/north on
180 A. Rig sign/ribbon will be on your
left/wast approx 10 miles from the
61/180 A turnoff.

(Drillsite is at the top of the ridge)

Cellular phone # 602-710-2046

6029982948 P.02 Marble Canyon KAIBITO PLATEAU Tuba City Cameron Ole EL ATO OL MOENKOPI PLATEAU С BlueO Hannagan Meadow D San Carios
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Ceronimo Fort Thomas Clifton Casa Crande O Picacho

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SAN MET Gila Bend SAUCEDA MTS. (84) E. 2920 Calling \$ PENDACIFOR {85 Ε Why to His San Louis Louis 15 Bel Catabi Hickiwan (15) **(1)** CHIRIDANUA WOUNTAINS EL 976 Sound Sand Sand North North State North St Bisbee % MILES



Fife Symington Governor

# Arizona Geological Survey

416 W. Congress, Suite 100 Tucson, Arizona 85701 (520) 770-3500



Larry D. Fellows
Director and State Geologist

June 6, 1996

Mr. Clarence Bigelow County Manager Apache County P.O. Box 428 St. Johns, AZ 85936

Re: Petrosun #15-1 NMAL, Sec. 15-14N-25E, Apache County

State Permit No. 894

Dear Mr. Bigelow:

A copy of the approved application to drill the referenced well in Apache County is enclosed for your information in accordance with the policy of the **Arizona Oil and Gas Conservation Commission** to keep County Governments informed about exploration and development drilling efforts in Arizona. This hole is being drilled as an oil test.

The Commission issues a Permit to Drill pursuant to A.R.S. § 27-516 after it determines that the well is in compliance with applicable rules and law and that public health and safety, correlative rights, and subsurface resources are not compromised.

Do not hesitate to contact me if I may be of further assistance.

Sincerely,

Steven L. Rauzi

Oil and Gas Program Administrator

Steven L. Rais

**Enclosures** 

c Commissioners Nations, Worthington, Clay, Lanshe, Veal





Fife Symington Governor

# Arizona Geological Survey

416 W. Congress, Suite 100 Tucson, Arizona 85701 (520) 770-3500



Larry D. Fellows
Director and State Geologist

June 5, 1996

Mr. Gordon LeBlanc Petrosun Exploration & Production, Inc. 6836 East Ludlow Scottsdale, Arizona 85254

Re: Petrosun #15-1 NMAL, Sec. 15-14N-25E, Apache County, Permit #894

Dear Mr. LeBlanc:

An approved duplicate original surety bond 141514412 (American Casualty Company of Reading, Pennsylvania), approved duplicate original Application for Permit to Drill the referenced well; Permit to Drill 894; and filing fee receipt #3088 are enclosed. Samples, logs, and completion report are required pursuant to A.A.C. R12-7-121. A copy of the Permit to Drill must be posted in a conspicuous place at the well site.

This Permit is issued on the condition that you conduct operations in compliance with all applicable rules and substantially as outlined in the drilling prognosis submitted with the application to drill, and that you notify me at least 48 hours before you:

- 1) Commence drilling operations;
- 2) Run and cement surface casing; and
- 3) Nipple up and test the BOPE prior to drilling out of the surface casing.

The Oil and Gas Conservation Commission of the State of Arizona looks forward to a successful completion of this well.

Sincerely

Steven L. Rauzi

Oil & Gas Program Administrator

Steven L. Rain

Enclosures

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Fife Symington

Governor

### State of Arizona Arizona Geological Survey

416 W. Congress, Suite 100 Tucson, Arizona 85701 (520) 770-3500



Larry D. Fellows Director and State Geologist

May 22, 1996

Mr. Gordon LeBlanc 6836 East Ludlow Scottsdale, Arizona 85254

Dear Mr. LeBlanc:

The following Forms required to permit, drill, and complete oil, gas, or geothermal wells in Arizona are enclosed in response to your phone call this morning.

Form 1)	Organization Report [see A.A.C. R12-7-194]
Form 2)	Performance Bond (or cash alternative, see below). [see A.A.C. R12-7-103]
Form 3)	Application for Permit to Drill or Reenter [see A.A.C. R12-7-104]
Form 4)	Completion Report [see A.A.C. R12-7-121]
Form 9)	Application to Plug and Abandon [see A.A.C. R12-7-126]
Form 10)	Plugging Record [see A.A.C. R12-7-127]
Form 25)	Sundry Report (BLM Form 3160-5 may be substituted for Form 25).

Submit Forms 1, 2 (or cash alternative), 3 (include drilling prognosis and surveyed location plat), and a \$25 application fee to my attention. A Permit to Drill is issued on approval. Forms 4, 9, and 10 are submitted upon completion of the well as a producer or dry hole. Submit Form 25, Sundry Notices, to report all other drilling, testing, or other wellsite activity.

Alternatives for surety include cash (cashiers check) or a certificate of deposit payable to Arizona Oil and Gas Conservation Commission. CD's must be automatically renewable, drawn on a federally insured bank physically doing business in Arizona, and sent to this office with the enclosed assignment form properly filled out. Irrevocable letters of credit are not accepted.

A copy of the oil and gas rules (Arizona Administrative Code, A.A.C. Title 12, Chapter 7) may be obtained directly from the Secretary of State for \$3.00 or \$4.00. Please call (602) 542-4086 for the current price.

Please call if I may be of further assistance.

Sincerely,

Stewn L.A

Oil & Gas Program Administrator

**Enclosures** 



Fife Symington Governor

## C

### State of Arizona Arizona Geological Survey

416 W. Congress, Suite 100 Tucson, Arizona 85701 (520) 770-3500



Larry D. Fellows Director and State Geologist

#### MEMORANDUM TO FILE

DATE:

May 8, 1996

FROM:

Steven L. Rauzi

Oil and Gas Program Administrator

SUBJECT: Known and reasonably estimated freshwater aquifers in vicinity of

PetroSun Exploration & Production 15-1 NMAL

nw se ne 15-14n-25e, Apache County (1445' fnl & 1050' fel)

Rick Herther, Basic Data Section, Arizona Department of Water Resources, reported this date that no water wells are registered in 15-14n-25e. The two closest water wells registered with ADWR are in sw sw sw 14-14n-25e (drilled 1947, 6" csg, 400' deep, with water level at 360') and sw se ne (adc) 10-14n-25e (drilled 1940, 8" csg, 260' deep, with water level at 6').

The proposed 8 5/8" surface casing set to 602' is therefore sufficient to protect surface waters and all other reasonably estimated aquifers in the vicinity of the subject well.

Goldon LeBlanc Jr. in office today with proposal to drill subject well. Anticipates submission of APD by end of month. Has leased 38,000 acres from NMAL in conjunction with John Somets II, High Plains Petholeum.

Golden Calls 5/28/96: Plans to submit APD by weckend. More in first week June.

ELECTRICAL STREET

e

#### PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS

		Bond Serial No. 14151441	2	
That we: PETROSUN EXPLORATION	ON & PRODUCTION, INCO	RPORATED		
of the County of		the State of Arizona		
s principal, and AMERICAN CASUALTY COMPANY OF READING, PENNSYLVANIA				
of CNA Plaza, Chicago, IL 6	0685 -			
AUTHO	RIZED TO DO BUSINESS WI	THIN THE STATE OF ARIZONA.		
as surety, are held and firmly bound of	into the State of Arizona and	the Oil and Gas Conservation Commissi	on, hereinatter reterred	
to as the "Commission", in the penal su lawful money of the United States, fo our heirs, executors, administrators or s	or which payment, well and be	the forme inage, we pure ourseless and	each of us, and each of	
The conditions of this obligation are the graphic purposes in and upon the follow	hat, whereas the above bound: ving described land situated wit	en principal proposes to drill a well or w thin the State, to-wit:	ells for oil, gas or stratí-	
Well Location: 1445' FNL &	1050' FEL of Sect. 15	T14N R25E of Apache County,	AZ	
regulations and orders of the Commiss drilling, casing and plugging of said w required by said Commission, then in produce oil or gas in commercial quanti	unden principal shall comply ion, especially with reference to the vells, and filing with the the event said well or wells ities, this obligation is void; otherwise controls are the controls of the control of the controls of the controls of the controls of the controls of the control of t	with all the provisions of the Laws of to the requirements of A.R.S. 5 27-516, e Oil and Gas Conservation Commission do not produce oil or gas in commercial transfer it shall remain in full force and effective shall remain and effective shall	providing for the proper all notices and records I quantities, or cease to fect.	
Whenever the principal shall be, and and the rules, regulations and orders of	declared by the Oil and Gas the Commission, the surety sh	Conservation Commission in violation o all promptly:	f the Laws of this State	
the Surety of the lowest responsil as work progresses sufficient fun-	on to the Commission to reme ble bidder, arrange for a contr ds to pay the cost of remedy	dy the violation, and upon determination act between such bidder and the Commising the violation; but not exceeding, intest forth in the first paragraph hereof.	sion, and make available	
Liability under this bond may not be t	erminated without written per	mission of this Commission,		
WITNESS our hands and seals, this	day of	June	, 19 96	
		Gordon M. LeBla	anc, Jr., President	
	PETROSUN EXPLORATION	& PRODUCTION, INCORPORATED		
:		Principal	96	
WITNESS our hands and seals, this	5th day of	June 7	, 19	
-	Brev. l. &	Bret S. Burton	, Attorney-in-Fact	
	AMERICAN CASUALTY CO	MPANY OF READING, PENNSYLVAN	IA	
•	Kasen K. Ra	Surery 4130 E. Van Buren	St. S-350 Phoenix, A	
	Karen K. Ranger	/(Surety, Resident Arizona Agent it issued in a state other than Arizona)	85008	
(If the principal is a corporation, the bond surety executes this bond by agent, power of	should be executed by its duly aut of attomey or other evidence of aut	horized officers, with the seel of the corporation for the corporation of the corporation of the bond.)	on affixed. When principal or	
Approved JUN 5 1996		STATE OF ARIZ	ONA	
Date		OIL & GAS CONSERVATIO	-····	
STATE OF ARIZ	3	Bond		
1		File Two Copie	ts	
By: Steven L. K	any	Form No. 2		
Permit No. 894				

...

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

POWER OF ATTORNEY APPOINTING  Know All Men By These Presents, That CONTINENTAL CASUAL  COMPANY OF HARTFORD, a Connecticut corporation, AMERICAN CAS  corporation (herein collectively called "the CNA Surety Companies"), are du  the City of Chicago, and State of Illinois, and that they do by virtue of the si  Joe E. Moddrell Jr., W. C. Cohen Jr., Joseph C. Lukens III, Roberta I.	TY COMPANY, an Illinois corporation, NATIONAL FIRE INSURANCE UALTY COMPANY OF READING, PENNSYLVANIA, a Pennsylvania uly organized and existing corporations having their principal offices in impature and seals herein affixed hereby make, constitute and appoint
Bret S. Burton, Jana M. Forrest, Individually	reoman, seek t. reet, never treet, pro-
of Witchita, Kansas	
their true and lawful Attorney(s)-in-Fact with full power and authority hereb undertakings and other obligatory instruments of similar nature	
- In Unlimite	ed Amounts -
and to bind them thereby as fully and to the same extent as if such instruntiand all the acts of said Attorney, pursuant to the authority hereby given an	nents were signed by a duly authorized officer of their corporations e hereby ratified and confirmed.
	rity of the By-Laws and Resolutions, printed on the reverse hereof, duly
In Witness Whereof, the CNA Sureties Companies have caused the their corporate seals to be hereto affixed on this day of	se presents to be signed by their Group Vice President and  January
CASUALTY COMPONATE CONTROLL CO	CONTINENTAL CASUALTY COMPANY NATIONAL FIRE INSURANCE COMPANY OF HARTFORD AMERICAN CASUALTY COMPANY OF READING, PENNSYLVANIA
1897	M.C. Vonnahme Group Vice President
State of Illinois, County of Cook, ss:  On this  11th  day of  January  M. C. Vonnahme  to me known, who, being by me duly sworn, did de that he is a  Group Vice President of CONTINENTAL CASUALTY COMPANY OF READING, PENNSYLVAN knows the seals of said corporations; that the seals affixed to the said insauthority given by the Boards of Directors of said corporations and that he same to be the act and deed of said corporations.	MPANY, NATIONAL FIRE INSURANCE COMPANY OF HARTFORD, IIA described in and which executed the above instrument; that he strument are such corporate seals; that they were so affixed pursuant to
NOTARY PUBLIC COOK CO.	Linda C. Dompsey
My Commission Expires October 19, 1998	B Linda C. Dempsey Notary Public
CERTIF	ICATE
I, John M. Littler , Assistant Secretary of CONTINENTAL CASUALTY (HARTFORD, and AMERICAN CASUALTY COMPANY OF READING, above set forth is still in force, and further certify that the By-Law and Reverse hereof are still in force. In testimony whereof I have hereunto suthis 5th day of June 1995.	PENNSYLVANIA do hereby certify that the Power of Attorney herein esolution of the Board of Directors of each corporation printed on the
THE CASUALTY OF THE WAREN	CONTINENTAL CASUALTY COMPANY  NATIONAL FIRE INSURANCE COMPANY OF HARTFORD.  AMERICAN CASUALTY COMPANY OF READING PENNSYI VANIA

(Rev.7/14/95)

John M. Littler

Assistant Secretary

**Authorizing By-Laws and Resolutions** 

ADOPTED BY THE BOARD OF DIRECTORS OF CONTINENTAL CASUALTY COMPANY:

i sometin

£?

This Power of Attorney is made and executed pursuant to and by authority of the following By-Law duly adopted by the Board of Directors of the Company.

"Article IX---Execution of Documents

Section 3. Appointment of Attorney-in-fact. The Chairman of the Board of Directors, the President or any Executive, Senior or Group Vice President may, from time to time, appoint by written certificates attorneys-in-fact to act in behalf of the Company in the execution of policies of insurance, bonds, undertakings and other obligatory instruments of like nature. Such attorneys-in-fact, subject to the limitations set forth in their respective certificates of authority, shall have full power to bind the Company by their signature and execution of any such instruments and to attach the seal of the Company thereto. The Chairman of the Board of Directors, the President or any Executive, Senior or Group Vice President or the Board of Directors, may, at any time, revoke all power and authority previously given to any attorney-in-fact.

This Power of Attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of the Company at a meeting duly called and held on the 17th day of February, 1993.

"Resolved, that the signature of the President or any Executive, Senior or Group Vice President and the seal of the Company may be affixed by facsimile on any power of attorney granted pursuant to Section 3 of Article IX of the By-Laws, and the signature of the Secretary or an Assistant Secretary and the seal of the Company may be affixed by facsimile to any certificate of any such power and any power or certificate bearing such facsimile signature and seal shall be valid and binding on the Company. Any such power so executed and sealed and certified by certificate so executed and sealed shall, with respect to any bond or undertaking to which it is attached, continue to be valid and binding on the Company."

ADOPTED BY THE BOARD OF DIRECTORS OF AMERICAN CASUALTY COMPANY OF READING, PENNSYLVANIA:

This Power of Attorney is made and executed pursuant to and by authority of the following By-Law duly adopted by the Board of Directors of the Company.

"Article VI—Execution of Obligations and Appointment of Attorney-in-Fact
Section 2. Appointment of Attorney-in-fact. The Chairman of the Board of Directors, the President or any Executive, Senior or Group Vice President may, from time to time, appoint by written certificates attorneys-in-fact to act in behalf of the Company in the execution of policies of insurance, bonds, undertakings and other obligatory instruments of like nature. Such attorneys-in-fact, subject to the limitations set forth in their respective certificates of authority, shall have full power to bind the Company by their signature and execution of any such

instruments and to attach the seal of the Company thereto. The President or any Executive, Senior or Group Vice President may at any time revoke all power and authority previously given to any attorney-in-fact."

This Power of Attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of the Company at a meeting duly called and held on the 17th day of February, 1993.

"Resolved, that the signature of the President or any Executive, Senior or Group Vice President and the seal of the Company may be affixed by facsimile on any power of attorney granted pursuant to Section 2 of Article VI of the By-Laws, and the signature of the Secretary or an Assistant Secretary and the seal of the Company may be affixed by facsimile to any certificate of any such power and any power or certificate bearing such facsimile signature and seal shall be valid and binding on the Company. Any such power so executed and sealed and certified by certificate so executed and sealed shall, with respect to any bond or undertaking to which it is attached, continue to be valid and binding on the Company."

ADOPTED BY THE BOARD OF DIRECTORS OF NATIONAL FIRE INSURANCE COMPANY OF HARTFORD:

This Power of Attorney is made and executed pursuant to and by authority of the following Resolution duly adopted on February 17, 1993 by the Board of Directors of the Company.

"RESOLVED: That the President, an Executive Vice President, or any Senior or Group Vice President of the Corporation may, from time to time, appoint, by written certificates, Attorneys-in-Fact to act in behalf of the Corporation in the execution of policies of insurance, bonds, undertakings and other obligatory instruments of like nature. Such Attorney-in-Fact, subject to the limitations set forth in their respective certificates of authority, shall have full power to bind the Corporation by their signature and execution of any such instrument and to attach the seal of the Corporation thereto. The President, an Executive Vice President, any Senior or Group Vice President or the Board of Directors may at any time revoke all power and authority previously given to any Attorney-in-Fact."

This Power of Attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of the Company at a meeting duly called and held on the 17th day of February, 1993.

"RESOLVED: That the signature of the President, an Executive Vice President or any Senior or Group Vice President and the seal of the Corporation may be affixed by facsimile on any power of attorney granted pursuant to the Resolution adopted by this Board of Directors on February 17, 1993 and the signature of a Secretary or an Assistant Secretary and the seal of the Corporation may be affixed by facsimile to any certificate of any such power, and any power or certificate bearing such facsimile signature and seal shall be valid and binding on the Corporation. Any such power so executed and sealed and certified by certificate so executed and sealed, shall with respect to any bond or undertaking to which it is attached, continue to be valid and binding on the Corporation."

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ORGA	NIZAT	TON R	REPOR	₹T

Full Name of the Company, Organization, or Individu	ual Dennischen INC		
PETROSUN EXPLORATION 4 Mailing Address and Phone Number	PRODUCTION THE	<u></u>	
BING AL GOTH DIAGE SCAT	TKHALE . AZ 85	5258	
min - Con - in the Chale whether erganization is	e a comporation, joint stock as	ssociation, time of partne	ership, or individual
CORPORATION (WHOLLY OW	INED SUBSIDIARY	1 OF THE CRE	DADS CORPORATION
Purpose of Organization (State type of business in	which engaged)		(NASDAQ BB : CRON)
OIL AND-GAS EXPLORATION + If a reorganization, give name and address of previous	P RODUCTION		
If a reorganiztion, give name and address of president	gs pidauranen		
If a foreign corporation, give (1) State where incorporated	(2) Name and mailing address of state agent		(3) Date of permit to do business in state
Principal Officers or Partners (if partnership) NAME	TITLE		MAILING ADDRESS
			6735 E. GREENWAY PKWY, #1040 SCOTTSDALL AZ 85254
GORDON M. LEBLANC, JR.	DRESIDENT		7660 E. BREADWAY, SUITE 210
<u>.</u>			TUCSON, AZ 86710
KEVIN SHERLOCK	SECRETARY	<del></del>	Incard to a
	+		
DIRECTORS NAME			MAILING ADDRESS
		6735 E. GRE	ENWAY PKWY H1040
GORDON M. LEBLANC, DR.		SCOTTSDALF	E AZ '85254
JONATHAN ROBERTS		TUCSON, AZ	POADWAY ISUITE 210 2 85710
CONTRACTOR			
	- the of ing state that	Landha PRESIDE	≥NT of the
CERTIFICATE: 1, the undersigned, under the per PETROSUN EXPLORATION + P	をひわいこではり」い(company)	), and that I am <b>colorize</b>	ed by said company to make this report; and that this
report was prepared under my supervision and d	lirection and that the facts s	tated therein are true	orrect and complete to the best of my knowledge.
_± <b>₩</b>		Signature	<i>A</i>
		7/18	
E K		Date	<i>j</i> • • • • • • • • • • • • • • • • • •
In the state of th			STATE OF ARIZONA
£.	or and	OII - & G/	AS CONSERVATION COMMISSION

Organization Report File One Copy

2/96

Form No. 1

Mail completed form to:
Oil and Gas Program Administrator
Arizona Geological Survey
416 W. Congress., #100
Tucson, AZ 85701

# ORGANIZATION REPORT (

full Name of the Company, Organization, or Petro Sun Explore	Individual ation 4 Produc	ction, Inc.		
			602-998-	011
LOSG Elizabous	Scottsdale, A	2 85754		7111
Plan of Organization (State whether organization	ation is a corporation, joint stoc	x association, titti oi patute	asap, or marriage	
Corporation  Purpose of Organization (State type of busin	ness in which engaged)			
Oil & Gas Explorat	tion & Product	ion		
If a reorganiztion, give name and address of	f previous organization			
NA	(2) Name and mailin	g address of state agent	(3) Date of permit	to do business in state
If a fereign corporation, give (1) State where incorporated	(E) (12,110 0112 1112mm,	<b>3</b>		
	į			
Principal Officers or Partners (if partners)	hin) T	TTLE	MAILIN	G ADDRESS
NAME	11P/			
4 A			6836 E	Ludlow
Carala MI allan	Jr. Preside	ont-		le AZ 85254
Gordon M. LeBland			6936 E. Ludlow	
Katie O. LeBlanc	Secreta	ary	Scottsda	le AZ 85254
		•		·
				·
0,000,000	NAME:		MAILING ADDRES	S
DIRECTORS	4	10936 F.1	inthou Sco	Heddle, AZ 85254
Gordon M. LeBla	<u> </u>		11	U 11- AST OFF
Katie O. LeBlanc		6836 E	udlow, Sc	oHsdale, AZ 8525
		·		· · · · · · · · · · · · · · · · · · ·
i\ 0,	address			
	r wants		•	
		$\mathcal{O}_{-1}$		
CERTIFICATE: 1, the un	35 E. Greenwa	ay Patloway a	件 1040	of the
		•		this report; and that this
report was prepared undi	Isolale AZ	85254		est of my knowledge.
, , , , , , , , , , , , , , , , , , , ,		0 000		
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<u>;</u>				
		·		
<i>k</i>				COMMISSION

Mail completed form to: Oil and Gas Program Administrator Arizona Geological Survey 416 W. Congress., #100 Tucson, AZ 85701

(P

Organization Report
File One Copy

Form No. 1

2/96

# ORGANIZATION REPORT (

full Name of the Company, Organization, or Individu Petro Sun Exploration	1 4 Production, Inc.		
Mailing Address and Phone Number 6836 E. Ludlow, Sca	Historie AZ 85254	602-998-9771	
Plan of Organization (State whether organization is	a corporation, joint stock association, firm or partne	ership, or individual	
Corporation			
umase of diganization (State type of business in )	which engaged)	<del></del>	
Oil & Gas Exploration	& Production		
a reorganization, give name and address of previous	us organization		
a foreign corporation, give  1) State where incorporated	(2) Name and mailing address of state agent	(3) Date of permit to do business in state	
Principal Officers or Partners (if partnership) NAME	πιε	MAILING ADDRESS	
		6836 E.Ludlow	
Gordon M. LeBlanc, Jr.	President	Scottsdale AZ 85754	
	Secretary	6836 E. Ludlow Scottsdale AZ 85254	
Katie O. LeBlanc	Secretary	JOHN RIE RE COPE	
DIRECTORS NAME		MAILING ADDRESS	
Gordon M. LeBlanc,	10836 E.1	udlow, Scottsdale, AZ8525	
		11 Co-Hadalo A7 957	
Katie O. LeBlanc	0836 E.	Ludlow, Scottschle, AZ 852	
·			
	· · · · · ·		
		. 1	
CERTIFICATE: 1 the understaned under the Di	enalty of perjury, state that 1 am the	sident of the	
1 block in Figure 100 at 10	ry 1. Y 1/1/20 1/20 (company), and that I at 1-20 the	ed by said company to make any report and are are	
most was prepared under my supervision and d	irrection and that the facts stated therein are tale, o	orbect and complete to the best of my knowledge.	
tabolt was bishared dide, my seperation and			
	- Ci	A	
•	Signature	X	
	5/2	4/98	
	Date		
		OTATE OF ARIZONA	
		STATE OF ARIZONA	

Mail completed form to: Oil and Gas Program Administrator Arizona Geological Survey 416 W. Congress., #100 Tucson, AZ 85701

C.

OIL & GAS CONSERVATION COMMISSION

Organization Report File One Copy

Form No. 1

2/96

BAKER

Section |

Prof Office Box 248 Farmington, New Mexico 87499 1732 Fast Main Street Farmington, New Mexico 87401 Telephone (SUS) 325-0246

COMPANY NAME: PETROSUN E & P

WELL NAME: 15-1 MMAL#I

CONTRACTOR: UNITED #3

**DST NO.: 1** 

K.B. ELEVATION:

SPOT: E 2 OF NE4

FORMATION: SUPAI

SECTION: 15

TOWNSHIP: 14N

RANGE: 25E

FIELD: WILDCAT

COUNTY: APACHE

STATE: ARIZONA

MIN.

BHUT-IN NO. 1: 30

MIN.

FLOW NO. 1: 15 FLOW NO. 2: 30

MIN.

BHUT-IN NO. 2: 80

MIN.

BOTTOM HOLE TEMP.: 80

TOP CHOKE: BUBBLE HOSE

BOTTOM CHOKE: 3/4

HOLE \$12E: 7 7/8

CASING SIZE & WT.: 8 5/8 24# @

SIZE & WT. D.P. OR TUBRIG: 4 1/2 XH 16.69

I.D. OF D.C.: 2 1/4

LENGTH OF D.C. ABOVE TOOL: 520

TOTAL DEPTH: 1082

INTERVAL TESTED: 1034 - 1082

TYPE OF TEST: BOTTOM HOLE CONVENTIONAL

MUD WEIGHT: 9.9

VISCOSITY: 38

TOOL OPENED @: 13:23:00

People and Products Providing Solutions for Completions, Workovers and Fishing

PW 894

Ω

COMPANY NAME: PETROSUN WELL NAME: 15-1 NMAI#1

DST NO.: 1

#### SAMPLE DATA

#### SAMPLE CHAMBER:

CC CAPACITY OF SAMPLE CHAMBER... 2500 CC VOLUME OF SAMPLE..... 2500 PSIG PRESSURE IN SAMPLE CHAMBER... 20 WHERE SAMPLER WAS DRAMED ..... RIG

SAMPLE CHAMBER CONTAINED: WATER

### RESISTIVITY DATA:

TOP...... .03 @ 80 200000+ PPM BOTTOM...... .08 @ 78 130000 PPM MUD PIT..... 01 @ 82 200000+ PPM 1000 PPM MAKE UP WATER ...... 5 @ 78

WATER NO OIL NO GAS NO DID WELL FLOW:

RECOVERY IN PIPE:

200' MUDDY WATER ומה אפי 1.59 Bbi 325' WATER

2.57Bbl **525' TOTAL** 

FIRST FLOW; TOOL OPENED WITH A 1" BLOW INCREASED TO THE BOTTOM OF THE BUCKET IN 5.5 MIN., MAINTAINED A FAIF BLOW OF THE BOTTOM OF THE BUCKET, 10 MIN STARTED DECREASING, 8" IN 12 MIN., 3" IN15 MIN.

SECOND FLOW; TOOL OPENED WITH A 1" BLOW INCREASED TO 5" IN 5 MIN., 5" IN 10 MIN., 5" IN 15 MIN., 3.5" IN 20 MIN., 3" IN 25 MIN., 2.5" IN 30 MIN.

SECOND SHUT-IN; DEAD

REMARKS:

7/N 894

COMPANY NAME: PETROSUN WELL NAME: 15-1 NWAL#1 DST NO.: 1

CONTRACTOR |

## RECORDER DATA

TYPE DMR CAP. 5000 NSIDE X	NO. 4000 LOC. 1020 OUTSIDE	HRS. 11:24	TYPE DMR CAP, 5000 INSIDE	NO. 4114 LOC. 1060 OUTSIDE X	HRS. 11:02
#H 53 FH 53 FF-1 14 FF-2 15 FF-2 20 SFP-4 31	11 90 18 167 193 13		#1 FH FF-1 FF-2 8P-1	547 51 167 178 308 388	÷

### GAS RATES

CHOKE SURFACE FLOW RATE
PRESSURE MCF/D REMARKS

NO GAS TO SURFACE

7/N 894

4 Start Deptir 1060 DMR Pressure Plot Tool Type 11:02:00 AM 1034-1062 6723-28 1 4 Test Interval Teet Date: 3,81 3.81 254 Delta Time (Hours) Preseure (PBI)
2.54 3.17 E2 OF NE4 15 14N 25E Formation SUPA 1.91 <u>g.</u> 127 121 8 29.0 CompanipETROSUN 15-1 NAMES 8 8 9 (a) emberedme) 7/N 894

( 12 mag )

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bressna (baj) 8 8 Start Depth 1020 804 Pressure Plot Tool Type: Engineer. 5.0 11:24:00 AM 1034-1062 9852/9 4 9,8 3.81 3.17 Dolla Time (Hours) E2 OF NE4 15 14N 25E Presente (PS) Formator BLPA Bavelon 2 Location 5 2 127 127 **3**. CompanyPETROBLN Welt 15:1 NAME #1 Fletch 8 8 없 (4) enularequeT

GENTES:

REAL PROPERTY.

7/N 894

ELECTRONIS

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TELLEMAME: #: NDSTESNIE, DAT
                 106/23/96
18:09:20
'COMPANY NAME PETROSUN E P
               15 1 NMA1
'WELL NAME
               WILDCAT
'FIELD
                          E 2 OF MF 4 15 14N 25E
'LOCATION
               SUPAI
'FORMATION
'ELEVATION
TEST INTERVAL 1034 1062
TEST DATE
                62376
                112400
'TEST TIME
                1020
'START DEPTH
 SAMPLE TIME
                60
 GAUGE MODEL
                DMR 312
SPAUGE SERIAL
                4000
                1020
 GAUGE DEPTH
TESTER'S NAME LEE WHITING
6810
             531,25
6870
             531.25
                                     Ü
                                                    INITIAL HYDROSTATIC
                                     1.25
6930
             532.5
6990
             533.75
                                     1.25
7050
             525
                                   B. 75
                                    --476.25
7110
             28.75
                                                    INITIAL FLOW START
7170
             38.75
                                     10
                      79.4375
7230
7290
             58.75
             70
                                 11.25
7350
             78.75
                                     8.75
7410
             88.75
                                     10
7470
             98.75
                                     10
7530
                                     B.75
7590
             107.5
             116.25
                                      8.75
7650
                      77.4375
7710
             131.25
7770
                                      5
             136.25
7830
                                      5
             141.25
 7890
             148.75
                                      7.5
                                                     INITIAL FLOW END
 7950
                                      105
             253.75
 8010
                                   81.25
              335
 8070
                                      11.25
              346.25
 8130
                      77.0625
 B190
 B250
              356.25
                                     1.25
              357.5
 8310
                                   2.5
              360
· 8370
                                     2.5
              362.5
 8430
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                                       2.5
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              367.5
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              348.75
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  9210
                                        -1.25
               371.25
  9270
                                       1.25
               372.5
  9330
                                       O
               372.5
  9390
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O 9570 372.5 1.25 373.75 78.1875 9630 373.75 9690 373.75 0 9750 -216.25157.5 7810 8.75 9870 166.25 B., 75 175 9930 182.5 7.5 7770 6.25 10050 198.75 76.3125 10110 201.25 10170 7.5 208.75 10230 5 213.75 10290 5 10350 218.75 6.25 10410 225 5 230 10470 235 5 10530 75.125 10570 241.25 10650 245 3.75 10710 2.5 10770 247.5 3.75 10830 251.25 3.75 10890 255 6.25 10950 261.25 263.75 11010 74.6875 11070 11130 271.25 275 5.75 11170 3.75 278.75 11250 3.75 282.5 11310 1.25 283.75 11370 5.75 11430 287.5 5.75 291.25 11490 74.5625 11550 293.75 11610 57.5 351.25 11670 5 356, 25 11730 2.5 358.75 11790 2.5 361.25 11850 1.25 11910 362.5 1.25 363.75 11970 75.0625 12030 12090 1.25 366.25 12150 1.25 367.5 12210 O 367.5 12270 O 367.5 12330 1.25 368.75 12390 -1.25367.5 12450 75.375 12510 368.75 12570 1.25 370 12630 370 12690 1.25 371.25 12750 -1.25 370 12810 1.25 371.25 12870 Û 371.25 12930 75.625 12990 371.25 13050 1.25 372.5 13110 -1.25

371.25

372.5

1.25

13170

13230

FINAL FLOW END

INITIAL SHUT_IN

FINAL FLOW START

13590 13650 373.75 373.75 373.75 13710 373.75 13770 O 13830 373.75 1.2513890 375 75.9375 13950 14010 375 1.25 14070 373.75 373.75 () 14130 1.25 14170 375 375 14250 O 375 14310 14370 14430 375 76.0625 14490 376.25 376.25 Õ 14550 376.25 O ;14610 376.25 O 14670 14730 14790  $\mathbf{O}$ 376.25 376.25 376.25 14850 14910 76.1875 376.25 14970 15030 376.25 376.25 (_) 15090 1.25 15150 377.5 FINAL SHUT-IN -1.25 15210 376.25 163.75 15270 540 -8.75 531.25 15330 76,25 15370 532.5 15450 -1.25 FINAL HYDROSTATIC 531.25 15510 0 531.25 15570 531.25 O 15630 Q. 531.25 15690 531.25 Ø 15750 --25 506.25 15810 76.0625 15870 468.75 15930 -6.25462.5 15990 -43.75 418.75 16050 -32.5 386.25 16110 -20366.25 16170 -37.5 328.75 16230 -3.75 325 16290 76.5 16350 146.25 16410 35 181.25 16470 -48.75 132.5 16530 2.5 135 16590 2.5 137.5 16650 1.25 138.75 16710 2.5 141.25 16770 76.3125 16830 125 16870 -35 90 16950 3.75 93.75 17010 -53.75 40 17070 3.75 43.75 17130 7.5 51.25 17190

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- Commenter
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•••**,** .A. **718:** 16: 49 'FILENAME: B:\DSTPSNBT.DAT 106/23/96 **COMPANY NAME PETROSUN E P 15 1 NMAI 1 *WELL NAME WILDCAT 'FIELD E 2 OF NE 4 15 14N 25E **!LOCATION** 'FORMATION **SUFAI PELEVATION** TEST INTERVAL 1034 1062 'TEST DATE 62376 110200 TEST TIME 'START DEPTH 1060 'SAMPLE TIME 60 'GAUGE MODEL DMR 312 4114 'GAUGE SERIAL 'GAUGE DEPTH 1060 TESTER'S NAME LEE WHITING // AV 547.5 7770 7830 548.75 1.25 INITIAL HYDROSTATIC 7890 547.5 1.251.25 546.25 7950 21.25 567.5 8910 -363.75 **B**070 203.75 --152.5 INITIAL FLOW START 8130 51.25 79.25 8170 71.25 8250 81.25 10 8310 10 91.25 8370 10 101.25 8430 8.75 110 8490 8.75 118.75 8550 8.75 127.5 8610 79.375 8670 143.75 8730 6.25 8790 150 5 155 8850 6.25 161.25 8910 6.25 INITIAL FLOW END 167.5 8970 176.25 343.75 9030 15 358.75 7070 79.4375 9150 370 9210 2.5 372.5 9270 2.5 375 9330 2.5 377.5 9390 1.25378.75 9450 1.25 380 9510 1.25 381.25 9570 79.25 9630 382.5 9690 1.25 383.75 9750 Ŏ 383.75 9810 1.25 385 9870 1.25 386.25 9930 Q 386.25 9990 Ò 386.25 10050 79 10110

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	10830	178.75		-207.5	FINAL FLOW START
	10870	188.75		10	
	10950	195		6.25	
	11010	202.5		7.5	
	11070		78.5625		
	11130	215			
	11190	221.25		6.25	
	11250	227.5		6.25	
	11310	233.75		6.25	
	11370	238.75	•	5	•
	11430	243.75		5	
	11490	248.75		ប៊	
	11550		78.4375		
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	11670	258.75		2.5	
	11730	261.25		2.5	
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	11850	268.75		5.75	
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	12030	286.25	10.0170		
	12150	290		3.75	
	12210	292.5		2.5	
	12270	276.25		3.75	
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ect of	12330	302.5		3.75	
	12450	305	•	2.5	
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	12570	308.75	/ G # G % J_G		FINAL FLOW END
	12630	362.5		53.75	
- 1	12690	371.25		8.75	
	12750	373.75		2.5	
	12810	376.25		2.5	
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